

FORNITURE & SERVIZI



CATALOGO GENERALE RACCORDI, FLANGE, FILTRI E VALVOLE



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SENECA Forniture & Servizi fornisce la strumentazione idonea e certificata di apparati e prodotti per impianti industriali (valvole industriali, filtri, giunti, riduttori, strumentazione di processo ecc.) fabbricati da primarie aziende nazionali e internazionali.

SENECA Forniture & Servizi è una divisione operativa di SENECA, con esperienza ultradecennale, in grado di svolgere un servizio per tutti i clienti che richiedono forniture, servizi e consulenze specifiche su prodotti di automazione e misura, o per la realizzazione di impianti industriali.

Con un rinnovato punto vendita, SENECA Forniture & Servizi propone la commercializzazione di apparati e prodotti per fluidi, vapori e gas (elettropompe, flange, valvole industriali, curve, raccorderie, strumentazione di processo, ecc.)



La nostra sede in Via Austria, 26 a Padova

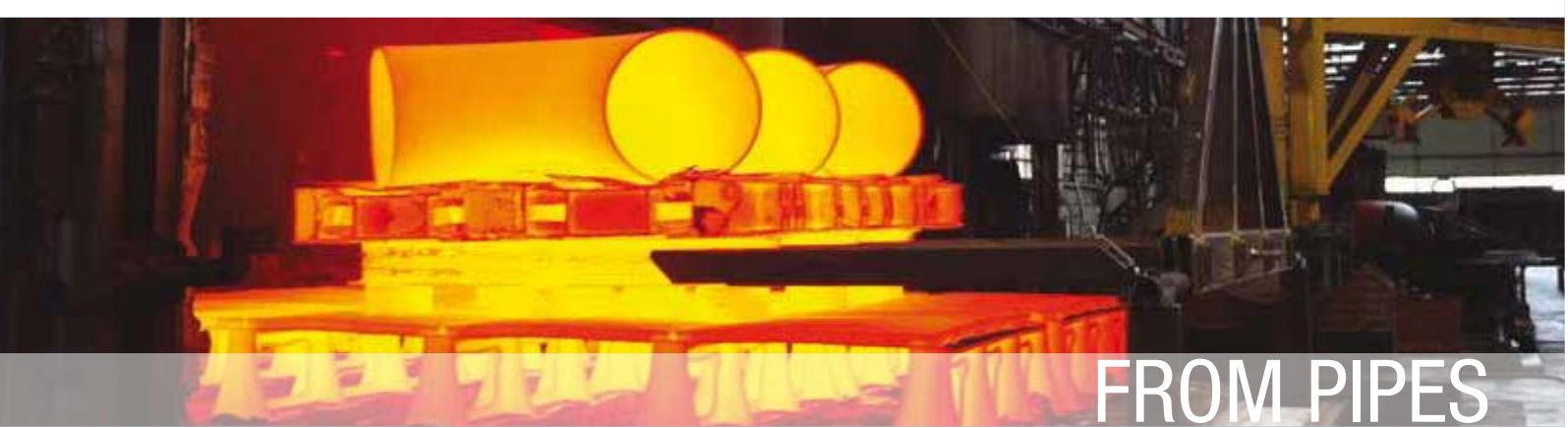
 **SENECA**
www.seneca-forniture.it



DAI TUBI



AI RACCORDI



FROM PIPES



TO FITTINGS



Competenza

Grazie ad anni di presenza continua sul mercato, SENECA Forniture & Servizi è in grado di soddisfare le aspettative di una clientela esigente, con tecnologie all'avanguardia, nei settori più vari dell'impiantistica industriale: petrolchimico, chimico, energia, cartario, alimentare, acquedottistico e trattamento acque, farmaceutico, costruzione di macchine e automazioni in genere. Vengono inoltre offerte consulenze qualificate nelle applicazioni di misura, regolazione, intercettazione e trasporto di fluidi.



Convenienza

SENECA Forniture & Servizi assume con professionalità tutti gli impegni presi con i clienti senza trascurare alcun aspetto della fornitura: la qualità al giusto prezzo, la disponibilità immediata, la massima rapidità nell'espletamento delle commesse, la garanzia dei controlli sui materiali e l'efficienza delle consegne. L'obiettivo principale, oltre alla piena soddisfazione del cliente, è quello di assicurare la massima qualità dei prodotti e dei servizi offerti, diventando un punto di riferimento sia in fase di analisi dell'applicazione che in fase di approvvigionamento, individuando e proponendo soluzioni altamente qualificate.

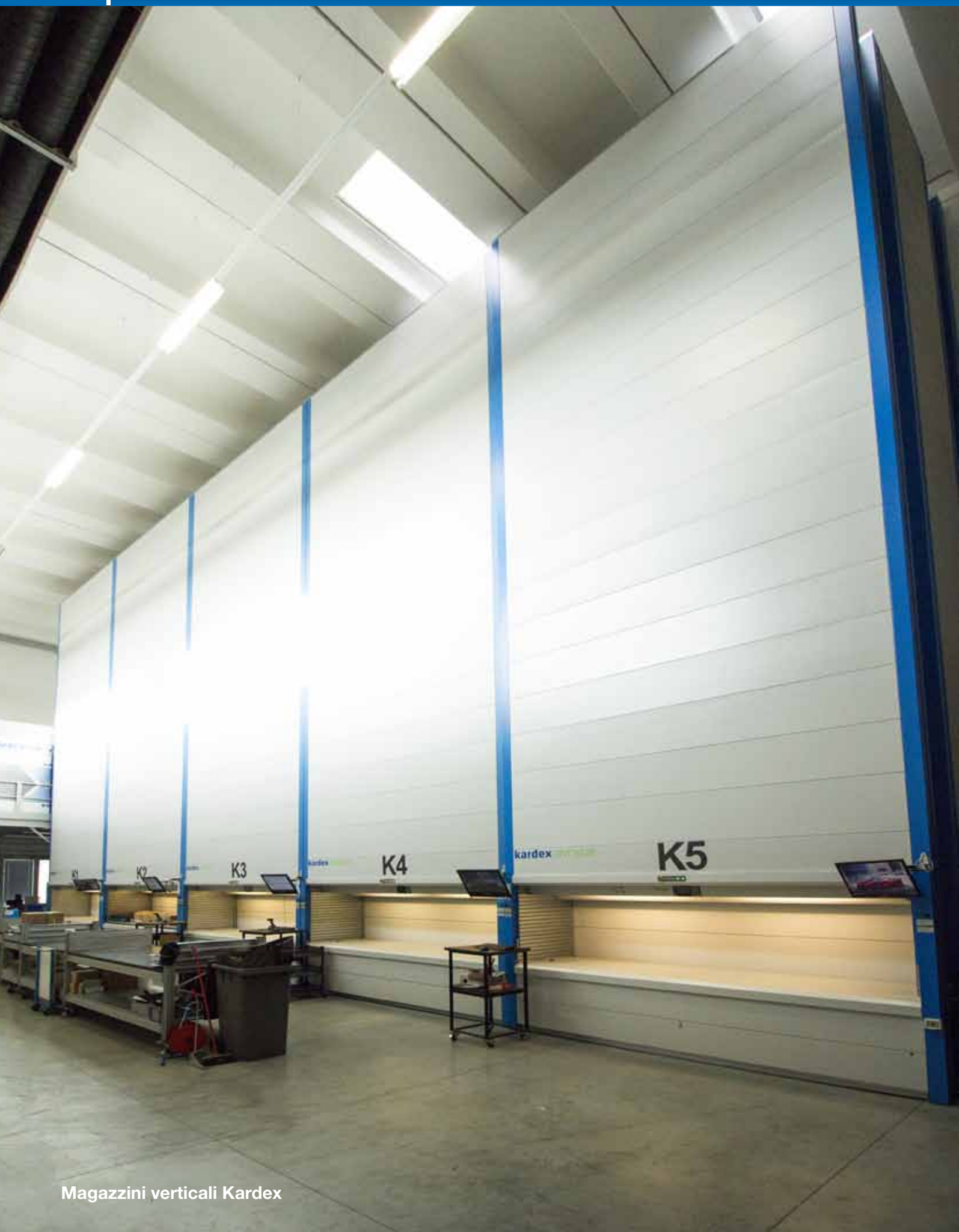


Forniture personalizzate

Potete affidarvi all'organizzazione e alla capacità di assistenza tecnica di SENECA Forniture & Servizi per trovare soluzioni a necessità specifiche.

Con l'ausilio di uno staff aziendale qualificato e organizzato, si garantisce al cliente con elevate esigenze qualitative una gestione commerciale efficace ed un servizio costante, assicurando un supporto continuo prima e dopo la vendita.

D'intesa con il cliente vengono ricercate e proposte forniture industriali speciali per qualsiasi applicazione, come ad esempio flange e componenti su disegno e su specifica.



Magazzini verticali Kardex

Qualità

La divisione Forniture & Servizi di SENECA opera in regime di Qualità, nel contesto dei processi aziendali certificati secondo le norme ISO 9001. In base alle scelte e all'impegno sostenuti, SENECA Forniture & Servizi offre prodotti altamente qualificati realizzati da costruttori che operano secondo le norme UNI EN ISO 9001.

SENECA Forniture & Servizi può inoltre rilasciare, su qualsiasi materiale offerto, certificati di collaudo e origine in conformità alle normative vigenti. I rigorosi controlli, eseguiti su tutti i prodotti, assicurano ad ogni fornitura la più completa affidabilità e garanzia.

SENECA assume come principio fondamentale della propria attività e fattore di successo, il fornire prodotti e servizi che garantiscano la completa soddisfazione delle esigenze del Cliente. E' impegno costante di SENECA Forniture & Servizi assicurare che ogni attività sia eseguita nel rigoroso rispetto delle normative in vigore e in modo tale da mantenere un elevato livello di qualità, affidabilità e sicurezza.



CERTIFICATI

I prodotti forniti da SENECA sono accompagnati da documenti di controllo, in accordo alla norma EN 10204.

I tipi di documenti sono:

CERTIFICATO 2.1

Documento rilasciato dal fabbricante in cui si dichiara che i prodotti forniti sono conformi all'ordine, senza inclusione dei risultati di prova.

CERTIFICATO 2.2

Documento in cui il fabbricante dichiara che i prodotti sono forniti conformi all'ordine fornendo i risultati di prova basati sulla non specifica ispezione.

CERTIFICATO 3.1

Documento rilasciato dal fabbricante in cui si dichiara che i prodotti forniti sono conformi all'ordine. Il certificato convalidato dal rappresentante autorizzato del produttore (indipendente dalla produzione), riportante i risultati di prova basati sulla specifica ispezione, è fornito a condizione che il fabbricante utilizzi procedure di rintracciabilità e sia in grado di fornire i documenti di controllo richiesti.

CERTIFICATO 3.2

Documento rilasciato dal fabbricante in cui si dichiara che i prodotti forniti sono conformi all'ordine. Il certificato convalidato dal rappresentante del produttore (indipendente dalla produzione) e da ispettori autorizzati designati da regolamenti ufficiali, riportante i risultati di prova basati sulla specifica ispezione, è fornito a condizione che il fabbricante utilizzi procedure di rintracciabilità e sia in grado di fornire i documenti di controllo richiesti.

CERTIFICATES

All our materials are supplied complete with inspection documents, depending on the products required and according to EN 10204 regulation.

Types of inspection documents:

CERTIFICATE 2.1

Inspection certificate issued by the manufacturer stating that the products supplied are in compliance with the order, without inclusion of test results.

CERTIFICATE 2.2

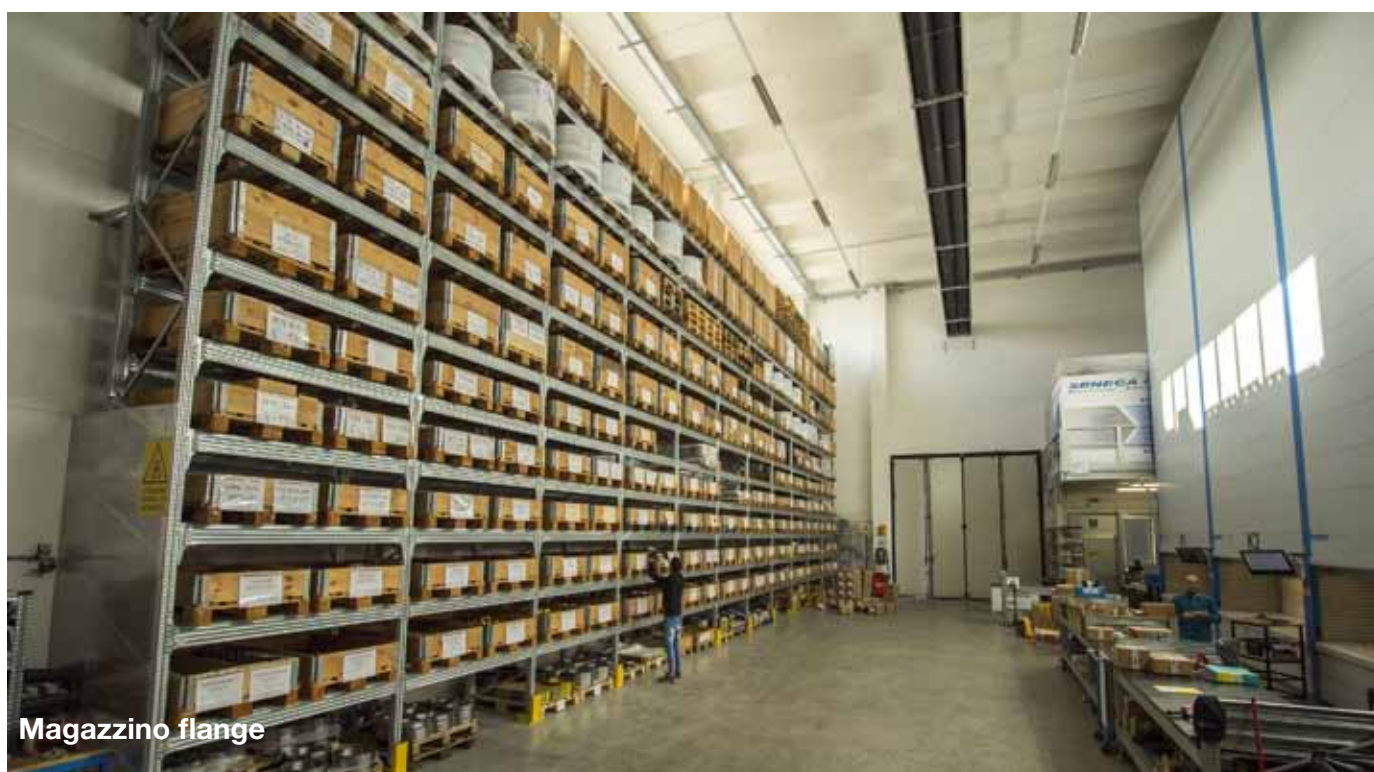
Inspection certificate in which the manufacturer declares that the products are in compliance with the order providing the test results based on non-specific inspection.

CERTIFICATE 3.1

Inspection certificate in which the manufacturer declares that the products are in compliance with the order. The document is validated by the manufacturer's authorized inspection representative, independent of the manufacturing department. This certificate provides the results of specific inspection, and it is produced on condition that the manufacturer uses tracking procedures and provide the requested inspection documents.

CERTIFICATE 3.2

Inspection certificate in which the manufacturer declares that the products supplied are in compliance with the order providing the test results based on specific inspection, validated by an authorized representative, by the manufacturer, (independent of production), and by the authorized inspector designated by the official regulations, the manufacturer uses procedures of tracking and able to provide the requested inspection documents.



Magazzino flange

TIPI ACCIAIO

Per acciai inossidabili si intendono quelle leghe a base di ferro, cromo e carbonio, eventualmente contenenti altri elementi come **Ni, Mo, Si**, ecc. la cui caratteristica principale è la **resistenza alla corrosione**.

Tale caratteristica è dovuta alla loro proprietà di passivarsi in presenza di un ambiente ossidante (quindi anche all'aria). La **passivazione** consiste nella formazione di uno strato invisibile di ossido (variabile in funzione della composizione chimica dell'acciaio, del trattamento termico e del tipo di ambiente ossidante) che costituisce una barriera al proseguimento dell'ossidazione e quindi della corrosione e che, in caso asportazione, si riforma spontaneamente.

Le classi in cui si dividono:

- Acciai Austenitici
- Acciai Martensitici
- Acciai Ferritici
- Acciai Duplex / Super Duplex

ACCIAI AUSTENITICI

Sono acciai inossidabili che contengono **Cr** (16 - 20%), **Ni** (7 - 18%) ed in alcuni tipi **Mo** (2 - 6%) con un tenore di carbonio di solito inferiore a 0,08%; la presenza di elementi stabilizzanti, **Ti** per esempio, migliora ulteriormente la **resistenza alla corrosione**, in particolare quella intergranulare, e contemporaneamente dà una maggior **resistenza ad alta temperatura**.

ACCIAI MARTENSITICI

Sono acciai al **solo cromo** (11% - 18%) contenenti eventualmente piccole quantità di altri elementi. Caratteristica fondamentale di questi acciai è l'attitudine a migliorare le loro proprietà meccaniche mediante un trattamento termico di tempra e di rinvenimento.

ACCIAI FERRITICI

Sono acciai **contenenti cromo (12-27%) e carbonio** generalmente $\leq 0,20\%$ con eventuali piccole aggiunte di altri elementi.

La loro caratteristica principale è di avere una **struttura ferritica a qualsiasi temperatura** e quindi di non essere suscettibili di aumento delle caratteristiche meccaniche mediante trattamenti termici.

ACCIAI DUPLEX / SUPER DUPLEX

Il termine Duplex deriva dal fatto che il materiale ha una microstruttura a due fasi, formata da grani di acciaio inox ferritico e austenitico incorporati nello stesso materiale. Il termine **Super Duplex** denota acciaio duplex ad alte prestazioni basato su un elevato contenuto di cromo, nichel e molibdeno per migliorare la resistenza alla corrosione.

TYPES OF STEEL

*Stainless steels are iron, chromium and carbon based alloys that may contain other elements such as **Ni, Mo, Si**, etc, whose main characteristic is their **resistance to corrosion**.*

*This characteristic is due to the passivation property of these steels in the presence of an oxidizing environment (therefore also in air). **Passivation** consists in the formation of an invisible layer of oxide, which varies according to the chemical composition of the steel, the type of heat treatment and the type of oxidizing environment which forms a protective barrier to continuation of oxidation and therefore corrosion, and which is rectified immediately if removed.*

The grades of stainless steels are:

- **Austenitic Steels**
- **Martensitic steels**
- **Ferritic steels**
- **Duplex / Super Duplex Steels**

AUSTENITIC STEELS

*Contain **Cr** (16-20%), **Ni** (7-18%) and in some types **Mo** (2-6%) with a carbon content that is usually less than 0.08%; the presence of stabilizing elements, such as **Ti**, further improves their **resistance to corrosion**, particularly intergranular corrosion, combined with greater **resistance to high temperatures**.*

MARTENSITIC STEELS

*These are basically plain **chromium** steels (11-18%) that may contain small quantities of other elements.*

The main characteristic of these steels is their ability to improve their mechanical properties through a hardening and tempering heat treatment.

FERRITIC STEELS

*These are steels **containing chromium (12-27%) and with a carbon** content generally of 0.20% possibly with minor additions of other elements.*

*Their main characteristic is that they have a **ferritic structure at any temperature** and, therefore, their mechanical properties cannot be improved through heat treatments.*

DUPLEX / SUPER DUPLEX STEELS

*The term Duplex derives from the concept that they have a two-phase microstructure consisting of grains of both ferritic and austenitic stainless steel within formulated in the same material. The term **Super Duplex** denotes highperformance Duplex steel based on elevated contents of chromium, nickel and molybdenum to improve pitting corrosion resistance.*

CLASSIFICAZIONE DEGLI ACCIAI AL CARBONIO

Gli acciai da noi utilizzati, contemplati dalla norma di esecuzione per raccordi EN 10253-2, possono essere classificati secondo due modalità:

COMPOSIZIONE CHIMICA:

• **ACCIAI AL CARBONIO:** P235TR1, P235TR2, P235GH, P265GH, P265NL, P355NH, P355NL1, L290NB, L360NB, L360QB, L415NB, L415QB, L450QB.

• **ACCIAI BASSO LEGATI**, quando nella loro composizione chimica contengono elementi in lega (cromo, nichel, molibdeno, etc) in quantità inferiore al 5% sia come somma degli elementi, sia come valore singolo se contengono un solo elemento: 16Mo3, 13CrMo4-5.

• **ACCIAI ALTO LEGATI**, quando nella loro composizione chimica contengono elementi in lega (cromo, nichel, molibdeno, etc) in quantità superiore al 5% sia come somma degli elementi, sia come valore singolo se contengono un solo elemento: X11CrMo9-1, X11CrMoVNb9-1.

CONDIZIONI DI IMPIEGO:

• **ACCIAI PER IMPIEGHI ALTE TEMPERATURE:** P235GH, P265GH, 16Mo3, 13CrMo4-5, P355NH.

• **ACCIAI PER IMPIEGHI A BASSE TEMPERATURE:** P265NL, P355NL.

• **ACCIAI AL ALTO SNERVAMENTO:** L290NB, L360NB, L415QB, L450QB.

TRATTAMENTI TERMICI

Si definisce **trattamento termico** l'operazione, o la successione di operazioni nel caso di un trattamento complesso, durante la quale l'acciaio viene sottoposto ad uno o più cicli termici, cioè a variazioni entro limiti determinati della temperatura in funzione del tempo. Di norma un ciclo termico comporta un riscaldamento ad una data temperatura, un mantenimento per un certo tempo a questa temperatura ed infine un raffreddamento fino a temperatura ambiente con modalità diverse in relazione agli effetti desiderati.

NORMALIZZAZIONE

Consiste in un riscaldamento ad una temperatura superiore ad **AC3** (= temperatura alla quale, durante il riscaldamento, inizia la formazione di austenite), per un tempo sufficiente ad **austenitizzare completamente** il materiale, seguito da raffreddamento in aria calma o mossa. Viene generalmente eseguita su pezzi grezzi di lavorazione a caldo per **affinare ed uniformare il grano** allo scopo di predisporre l'acciaio nel modo migliore per i successivi trattamenti termici.

CLASSIFICATION OF CARBON STEELS

The steels which we use as listed by EN 10253-2 standards, are classified in 2 ways:

CHEMICAL COMPOSITION:

• **CARBON STEELS:** P235TR1, P235TR2, P235GH, P265GH, P265NL, P355NH, P355NL1, L290NB, L360NB, L360QB, L415NB, L415QB, L450QB.

• **LOW ALLOY STEELS**, when their alloy content (chrome, nickel, molybdenum, etc) is less than 5% whether as the sum of elements or as single value if only one element is present: 16Mo3, 13CrMo4-5.

• **HIGH ALLOY STEELS**, when their alloy content (chrome, nickel, molybdenum, etc) is greater than 5% whether as the sum of the elements or as single value if only one elements is present: X11CrMo9-1, X11CrMoVNb9-1.

APPLICATIONS:

• **STEELS FOR USE AT HIGH TEMPERATURES:** P235GH, P265GH, 16Mo3, 13CrMo4-5, P355NH.

• **STEELS FOR USE AT LOW TEMPERATURES:** P265NL, P355NL.

• **HIGH-YIELD POINT STEELS:** L290NB, L360NB, L415QB, L450QB.

HEAT TREATMENTS

Heat treatment is the operation (or series of operations in the case of complex treatments) during which one or more thermal cycles are carried out on the steel, i.e modifying the temperature within specific time limits. During a thermal cycle, the steel is usually heated to a certain temperature, held at this temperature for a certain time and then left to cool to room temperature in various ways according to the effects required.

NORMALIZING

*Normalizing consists in heating to a temperature above **AC3** (= temperature at which, during heating, transformation of the ferrite into austenite begin) for a time sufficient allow **complete austenization** of the material followed by cooling in still or forced air. This process is usually carried out on hot worked rough parts in order to *obtain a finer, more even grain* so that the steel is in optimal conditions for subsequent heat treatments.*

RICOTTURA

Lo scopo della ricottura è quello di **addolcire l'acciaio per renderlo atto alle lavorazioni meccaniche e/o plastiche**, di eliminare le tensioni residue e di distruggere gli effetti di una deformazione plastica, di una saldatura o di un trattamento termico precedente. Esistono vari cicli di ricottura, (subcritica, isoterma), la cui scelta fatta in relazione alla durezza ed alle strutture necessarie per un determinato tipo di lavorazione.

TEMPRA

Il trattamento **tempra** comprende un **riscaldamento di austenitizzazione**, seguito da un raffreddamento fino ad una temperatura inferiore ad **MS** (= temperatura alla quale, durante il raffreddamento, inizia la trasformazione dell'austenite in martensite) sufficientemente rapido da permettere la trasformazione in martensite, struttura di elevata durezza e fragilità.

RINVENIMENTO

Allo stato **temprato** l'acciaio presenta una elevata durezza e basse caratteristiche di tenacità. È necessario quindi ricorrere ad un successivo trattamento che ne modifichi più o meno profondamente la struttura martensitica di tempra annullandone le tensioni e la fragilità. Questo trattamento, denominato **rinvenimento**, comprende un riscaldamento ad una temperatura inferiore ad **AC1** (temperatura alla quale, durante il riscaldamento, l'austenite inizia a formarsi), un mantenimento per un certo tempo a questa temperatura ed infine un raffreddamento in un mezzo appropriato fino a temperatura ambiente.

SOLUBILIZZAZIONE

Esso consiste in un riscaldamento a temperatura in genere compresa fra i 1000 e i 1100°C, con una **permanenza** a questa temperatura sufficiente per eliminare le alterazioni strutturali provocate dalle lavorazioni precedenti e per realizzare una "solubilizzazione" possibilmente completa dei carburi nell'austenite; il raffreddamento successivo, in aria o acqua, deve essere superficialmente rapido da impedire la riprecipitazione dei carburi che, in un **raffreddamento** lento, avviene in genere nell'intervallo fra i 450 e gli 850°C circa. Con tale trattamento si ottiene il **massimo addolcimento degli acciai inossidabili austenitici**.

BONIFICA ISOTERMICA

La bonifica isometrica si esegue con riscaldamento alla normale temperatura di tempra seguito da rapido spegnimento in bagno di sali a temperatura sopra **MS** di circa 10°-30° fino a completa trasformazione dell'austenite.

DISTENSIONE

Nel caso degli acciai da cementazione o **autotempranti**, per diminuire e possibilmente annullare le tensioni residue causate dalla tempra pur mantenendo elevati valori di durezza, si ricorre al trattamento di distensione che consiste in un riscaldamento a temperature inferiori ai 250°C. In questo caso non si hanno apprezzabili modifiche strutturali.

ANNEALING

*The purpose of annealing is to **soften the steel so that it is suitable for mechanical and/or plastic machining**, to eliminate residual stresses and to eliminate the effects of plastic deformation, of welding or of a previous heat treatment. There are a number of used cycles (Sub critical, isothermal annealing), whose annealing cycles must be selected according to the hardness and structures required for a specific type of machining.*

HARDENING

*The **hardening** treatment includes **austenitizing heating** followed by cooling to a temperature below **MS** (= temperature at which, during cooling, transformation of the austenite into martensite starts) a speed which allows into martensite, a very hard brittle structure.*

TEMPERING

*When **hardened**, steel is characterized by a high level of hardness and a low level of toughness.*

*A subsequent treatment is therefore required to produce a greater or lesser modification of the martensitic hardening structure, eliminating its stresses and brittleness. This treatment, known as **tempering**, involves heating to a temperature below **AC1**, (= temperature at which, during heating, austenite starts) to form holding this temperature for a certain time and finally, cooling to room temperature in an appropriate container.*

SOLUTION ANNEALING

*This process consists in heating to a temperature usually between 1000 and 1100°C. The part is **held** at this temperature for a time sufficient to eliminate the structural alterations caused by previous machining and also to obtain maximum complete if as possible "solubilization" of the carbides of the austenite; subsequent **cooling**, in air or water, must be fast enough to prevent reprecipitation of the carbides which, in the case of slow cooling, usually occurs in the range between approx. 450 and 850°C.*

***Maximum softening of austenitic stainless steels** is obtained with this treatments.*

AUSTEMPERING

*This treatment consists in heating to normal hardening temperature followed by fast quenching in a salt bath at a temperature of around 10°C - 30°C above **Ms** until complete transformation of the austenite.*

STRESS RELIEVING

*Stress relieving, which consists in **heating** to temperatures below 250°C, is used for casehardening or air-hardening steels in order to restrict and possibly eliminate residual hardening stresses while maintaining high level hardness. In this way, there are no appreciable modifications to the structure.*

ASME B16.9



Stainless steel and carbon steel



RACCORDI A SALDARE | BUTT WELDING FITTINGS



DIMENSIONI E SPESSORI SECONDO ASME B 16.9 + B 36.10 E ASME B 36.19

RANGE OF SIZES AND WALL THICKNESS

Ø nom. tubo Nom. pipe size	Diam. esterno Outside diam.		Sch. 5		Sch. 10		Sch. 20		Sch. 30		STD WT		Sch. 40		Sch. 60		XS		Sch. 80		Sch. 100		Sch. 120		Sch. 140		Sch. 160		XXS	
	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm	inch	mm
1/2"	0.840	21,34	0.065	1,65	0.083	2,11	-	-	-	-	0.109	2,77	-	-	-	-	0.147	3,73	-	-	-	-	-	-	-	-	0.187	4,75	0.294	7,47
3/4"	1.050	26,67	0.065	1,65	0.083	2,11	-	-	-	-	0.113	2,87	-	-	-	-	0.154	3,91	-	-	-	-	-	-	-	-	0.218	5,54	0.308	7,82
1"	1.315	33,40	0.065	1,65	0.109	2,77	-	-	-	-	0.133	3,38	-	-	-	-	0.179	4,55	-	-	-	-	-	-	-	-	0.250	6,35	0.358	9,09
1 1/4"	1.660	42,16	0.065	1,65	0.109	2,77	-	-	-	-	0.140	3,56	-	-	-	-	0.191	4,85	-	-	-	-	-	-	-	-	0.250	6,35	0.382	9,70
1 1/2"	1.900	48,26	0.065	1,65	0.109	2,77	-	-	-	-	0.145	3,68	-	-	-	-	0.200	5,08	-	-	-	-	-	-	-	-	0.281	7,14	0.400	10,16
2"	2.375	60,33	0.065	1,65	0.109	2,77	-	-	-	-	0.154	3,91	-	-	-	-	0.218	5,54	-	-	-	-	-	-	-	-	0.343	8,71	0.436	11,07
2 1/2"	2.875	73,03	0.083	2,11	0.120	3,05	-	-	-	-	0.203	5,16	-	-	-	-	0.276	7,01	-	-	-	-	-	-	-	-	0.375	9,53	0.552	14,02
3"	3.500	88,90	0.083	2,11	0.120	3,05	-	-	-	-	0.216	5,49	-	-	-	-	0.300	7,62	-	-	-	-	-	-	-	-	0.438	11,13	0.600	15,24
3 1/2"	4.000	101,60	0.083	2,11	0.120	3,05	-	-	-	-	0.226	5,74	-	-	-	-	0.318	8,08	-	-	-	-	-	-	-	-	-	-	0.636	16,15
4"	4.500	114,30	0.083	2,11	0.120	3,05	-	-	-	-	0.237	6,02	-	-	-	-	0.337	8,56	-	-	-	-	-	-	-	-	0.531	13,49	0.674	17,12
5"	5.563	141,30	0.109	2,77	0.134	3,40	-	-	-	-	0.258	6,55	-	-	-	-	0.375	9,53	-	-	-	-	-	-	-	-	0.625	15,88	0.750	19,05
6"	6.625	168,28	0.109	2,77	0.134	3,40	-	-	-	-	0.280	7,11	-	-	-	-	0.432	10,97	-	-	-	-	-	-	-	-	0.718	18,24	0.864	21,95
8"	8.625	219,08	0.109	2,77	0.148	3,76	0.250	6,35	0.277	7,04	0.322	8,18	-	-	-	-	0.500	12,70	-	-	0.593	15,06	0.718	18,24	0.812	20,62	0.906	23,01	0.875	22,23
10"	10.750	273,05	0.134	3,40	0.165	4,19	0.250	6,35	0.307	7,80	0.365	9,27	-	-	-	-	0.500	12,70	-	-	0.593	15,06	0.718	18,24	0.843	21,41	1.000	25,40	1.125	28,58
12"	12.750	323,85	0.165	4,19	0.180	4,57	0.250	6,35	0.330	8,38	0.375	9,53	0.406	10,31	0.562	14,27	0.500	12,70	-	-	0.593	15,06	0.718	18,24	0.843	21,41	1.000	25,40	1.125	28,58
14"	14.000	355,60	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.438	11,13	0.593	15,06	0.500	12,70	-	-	0.750	19,05	0.937	23,80	1.093	27,76	1.250	31,75	1.406	35,71
16"	16.000	406,40	-	-	0.250	6,35	0.312	7,92	0.375	9,53	0.375	9,53	0.500	12,70	0.656	16,66	0.500	12,70	-	-	1.031	26,19	1.218	30,94	1.438	36,53	1.593	40,46	-	-
18"	18.000	457,20	-	-	0.250	6,35	0.312	7,92	0.438	11,13	0.375	9,53	0.562	14,27	0.750	19,05	0.500	12,70	-	-	1.156	29,36	1.375	34,93	1.562	39,67	1.781	45,24	-	-
20"	20.000	508,00	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	0.593	15,06	0.812	20,62	0.500	12,70	-	-	1.281	32,54	1.500	38,10	1.750	44,45	1.968	49,99	-	-
22"	22.000	558,80	-	-	0.250	6,35	0.375	9,53	0.500	12,70	0.375	9,53	-	-	0.875	22,22	0.500	12,70	-	-	1.375	34,92	1.525	41,27	1.875	47,62	2.125	53,97	-	-
24"	24.000	609,60	-	-	0.250	6,35	0.375	9,53	0.562	14,27	0.375	9,53	0.687	17,45	0.968	24,59	0.500	12,70	-	-	1.531	38,89	1.812	46,02	2.062	52,37	2.343	59,51	-	-
26"	26.000	660,40	-	-	0.312	7,92	0.500	12,70	-	-	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
28"	28.000	711,20	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
30"	30.000	762,0	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	-	-	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-
32"	32.000	812,80	-	-	0.312	7,92	0.500	12,70	0.625	15,87	0.375	9,53	0.688	17,47	-	-	0.500	12,70	-	-	-	-	-	-	-	-	-	-	-	-

Identical to "Standard"

Identical to "Extra Strong"



INFORMAZIONI GENERALI GENERAL INFORMATION

I RACCORDI A SALDARE ASME B16.9 SONO FORNITI IN ACCORDO ALLE SEGUENTI NORME:

**SENECA'S BUTT WELDING FITTINGS ARE PROVIDED IN ACCORDING
TO THE FOLLOWING STANDARDS:**

Norma di raccordo Fitting standard	Norma Standard	Descrizione Description	Grado di acciaio Steel grade	Tipologia di raccordi / Fittings types
ASME B16.9	ASTM/ASME A/SA 403	Specifiche standard di raccordi di tubazione in acciaio inox austenitici <i>Standard specification for piping fittings of stainless steel austenitic</i>	WP304/304L WP316/316L	Curve / Elbows Long / Short Radius Riduzioni concentriche ed eccentriche / Concentric and eccentric reducers Tee con derivazione uguale e ridotta / Equal reducing tee Fondi / Caps <i>Stub - Ends Short Length</i>
	ASTM/ASME A/SA 234	Raccordi per tubazioni in acciaio al carbonio o basso-legato per impiego in pressione a media-alta temperatura. <i>Piping fittings of wrought carbon steel and alloy steel for moderate and high temperature service.</i>	Acciai al carbonio: WPB, WPC Acciai legati WP1, WPS(CL.1,3), WP9(CL.1,3), WP11(CL.1,2,3), WP12(CL.1,2) WP22(CL.1,3), WP91	Curve/Elbows (SR, LR, R=3D) Riduzioni concentriche/eccentriche <i>Concentric and eccentric reducer</i> Tee con derivazione uguale e ridotta <i>Equal reducing tee</i> Fondi/Caps
	ASTM/ASME A/SA 420	Raccordi per tubazione in acciaio al carbonio o basso-legato per impiego in pressione a bassa temperatura <i>Piping fittings of wrought carbon steel and alloy steel for low-temperature service</i>	WPL6	---
MSS SP75	ASTM A 860	Raccordi a saldare di testa ad alto snervamento per il trasporto di fluidi combustibili. <i>Wrought high-strength ferritic steel butt-welding fittings.</i>	WPHY42, WPHY52, WPHY60, WPHY65, WPHY70	---

I raccordi vengono forniti con estremità smussate secondo ASME B16.25.

Fittings are supplied with beveled ends according to ASME B16.25.

Le tabelle riportate in seguito permettono un confronto tra i differenti gradi di acciaio secondo la composizione chimica e le proprietà meccaniche:

Tables shown below allow a comparison between the different steel grades according to the chemical composition and mechanical properties:



Grado / Grade		Composizione / Composition %							
Grade WP	C	Mn	P	S	Si	Ni	Cr	Mo	Others
WP304	0.08	2.00	0.045	0.030	1.00	8.0 - 11.0	18.0 - 20.0		
WP304L	0.030	2.00	0.045	0.030	1.00	8.0 - 12.0	18.0 - 20.0		
WP316	0.08	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
WP316L	0.030	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
WPB ^{B,C,D,E,F}	0.30 max	0.29 - 1.06	0.050	0.058	0.10 min	0.40 max	0.40 max	0.15 max	Vanadium 0.08 max
WPC ^{C,D,E,F}	0.35 max	0.29 - 1.06	0.050	0.058	0.10 min	0.40 max	0.40 max	0.15 max	Vanadium 0.08 max
WP1	0.28 max	0.30 - 0.90	0.045	0.045	0.10 - 0.50	...	...	0.44 - 0.65	...
WP12 CL1, WP12 CL2	0.05 - 0.20	0.30 - 0.80	0.045	0.045	0.60 max	...	0.80 - 1.25	0.44 - 0.65	...
WP11 CL1	0.05 - 0.15	0.30 - 0.60	0.030	0.030	0.50 - 1.00	...	1.00 - 1.50	0.44 - 0.65	...
WP11 CL2, WP11 CL3	0.05 - 0.20	0.30 - 0.80	0.040	0.040	0.50 - 1.00	...	1.00 - 1.50	0.44 - 0.65	...
WP22 CL1, WP22 CL3	0.05 - 0.15	0.30 - 0.60	0.040	0.040	0.50 max	...	1.90 - 2.60	0.87 - 1.13	...
WP5 CL1, WP5 CL3	0.15 max	0.30 - 0.60	0.040	0.030	0.50 max	...	4.0 - 6.0	0.44 - 0.65	...
WP9 CL1	0.15 max	0.30 - 0.60	0.030	0.030	1.00 max	...	8.0 - 10.0	0.90 - 1.10	...
WP91	0.08 - 0.12	0.30 - 0.60	0.020	0.010	0.20 - 0.50	0.40 max	8.0 - 9.5	0.85 - 1.05	Vanadium 0.18-0.25
WPL6	0.30 max	0.50 - 1.35	0.035	0.040	0.15 - 0.40	0.40 max	0.30	0.12	Vanadium 0.08
WPHY	0.20 max	1.00 - 1.45	0.030	0.010	0.15 - 0.40	0.50 max	0.30	0.25	Vanadium 0.10

NOTA 1 - Tutti i requisiti sono al massimo se non diversamente indicato.

NOTA 2 - Dove i puntini di sospensione (...) appare in questa tabella, non vi è alcun obbligo.

NOTA 1 - All requirements are maximum unless otherwise indicated.

NOTA 2 - Where an ellipsis (...) appears in this table, there is no requirement.

^A Quando raccordi sono di costruzione saldata, il simbolo di grado e la marcatura sopra indicato deve essere completata con la lettera "W".

^B Raccordi prodotti da barra o piastra può avere carbonio max 0,35.

^C Raccordi a base di forgiati può avere carbonio max 0,35 e 0,35 silicio max sempre minimo.

^D Per ogni riduzione dello 0,01% al di sotto del massimo di carbonio specificato, con un incremento del 0,06% manganese al di sopra del massimo specificato sarà consentito, fino ad un massimo di 1,35%.

^E La somma di rame, nichel, cromo, molibdeno e non supera 1,00%.

^F La somma di cromo e molibdeno non supera 0,32%.

^A When fittings are of welded construction, the grade and marking symbol shown above shall be supplemented by the letter "W".

^B Fittings made from bar or plate may have 0.35 max carbon.

^C Fittings made from forgings may have 0.35 max carbon and 0.35 max silicon with no minimum.

^D For each reduction of 0,01% below the specified carbon maximum, an increase of 0,06% manganese above the specified maximum will be permitted, up to a maximum of 1,35%.

^E The sum of Copper, Nickel, chromium, and Molybdenum shall not exceed 1,00%.

^F The sum of Chromium and Molybdenum shall not exceed 0,32%.

Grado di acciaio / Steel grade	Snervamento / Yield Strength min. ksi [MPa]	Rottura / Tensile Strength min. ksi [MPa]
304, 316	30 [205]	75 [515]
304L, 316L	20 [170]	70 [485]

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LE TOLLERANZE ASME B16.9 SONO RIEPILOGATE NELLE SEGUENTI TABELLE:
TOLERANCES ASME B16.9 ARE SUMMARIZED IN THE FOLLOWING TABLES:

Tutti i raccordi [Note (1) e (2)] All Fittings [Notes (1) and (2)]				Dimensioni dal centro all'estremità Center-to-End dimensions				Spessore Thickness
Diametro nominale del tubo (NPS) Nominal Pipe Size (NPS)	DN	Diametro esterno allo smusso Outside Diameter at Bevel D*1	Diametro interno all'estremità Inside Diameter at End*2	90° e 45° curve long e short radius e tee 90-deg and 45-deg long and short radius Elbows and tees A, B, C, M	Curve raggio 3D 3D Radius Elbows A, B	Lunghezza generale delle riduzioni e delle cartelle Overall Length of reducers and lap joint stub ends F, H	Lunghezza generale dei fondi Overall length of caps E	Alle estremità At the ends
1/2 to 2 1/2	15-65	+1.6, -0.8	0.8	2	3	2	3	-12,5%
3 to 3 1/2	80-90	1.6	1.6	2	3	2	3	
4	100	1.6	1.6	2	3	2	3	
5 to 8	125-200	+2.4, -1.6	1.6	2	3	2	6	
10 to 18	250-450	+4.0, -3.2	3.2	2	3	2	6	
20 to 24	500-600	+6.4, -4.8	4.8	2	3	2	6	
26 to 30	650-750	+6.4, -4.8	4.8	3	6	5	10	
32 to 48	800-1200	+6.4, -4.8	4.8	5	6	5	10	

NOTE GENERALI / GENERAL NOTES

(a) Tutte le dimensioni sono in millimetri / (a) All dimensions are in millimeters

(b) Le tolleranze sono uguali più o meno eccetto le note / (b) Tolerances are equal plus and minus except as noted

NOTES

(1) Il diametro interno e nominale della parete dello spessore alle estremità deve essere specificato dall'acquirente

(1) The inside diameter and the nominal wall thickness at ends are to be specified by the purchaser

(2) Il minimo spessore della parete del 87,5% è applicato a meno che l'acquirente specifichi una differente tolleranza della parete dello spessore

(2) A minimum wall thickness of 87.5% is applied unless the purchaser specifies a different wall thickness tolerance

(3) L'ovalità è la somma dei valori assoluti delle tolleranze minime e massime

(3) Out-of-round is the sum of absolute values of plus and minus tolerances

(4) Questa tolleranza non può essere applicata ad aree localizzate dei raccordi formati dove è necessario un aumento per soddisfare i requisiti di progetto

(4) This tolerance may not be applied in localized areas of fittings formed where increased wall thickness is required to meet design requirements

(5) Se non diversamente specificato dall'acquirente queste tolleranze applicate al diametro interno nominale, corrispondono alla differenza tra il diametro esterno nominale e il doppio spessore della parete nominale

(5) Unless otherwise specified by the purchaser, these tolerances applied to the nominal inside diameter, correspond to the difference between the nominal outside diameter and twice the nominal wall thickness

*1 (NOTES 3 AND 4)

*2 (NOTES 3 AND 5)



CARATTERISTICHE TECNICHE

Ricavate da tubo senza saldatura o saldato.

Norme dimensionali e tolleranze: ASME B16.9 / B16.25

MARCATURA: in accordo ASTM/ASME B16.9 e MSS SP-25

Certificati EN 10204/3.1

TECHNICAL INFORMATION

Made from seamless pipe or welded.

Dimensional standard and tolerances: ASME B16.9 / B16.25

MARKING: according to ASTM/ASME B16.9 and MSS SP-25

Certificates EN 10204/3.1



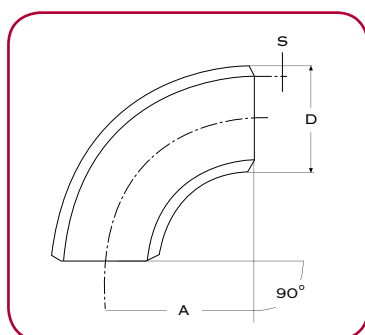


CURVE 90° RAGGIO = 1,5D (45° su richiesta)

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

LONG RADIUS ELBOWS 90° (45° on request)

ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L



Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	Raggio Radius
21.34 x 2.11	1/2" SCH 10S	0.06	38
21.34 x 2.77	1/2" SCH 40S	0.08	38
21.34 x 3.73	1/2" SCH 80S	0.10	38
21.34 x 4.78	1/2" SCH 160	0.15	38
26.67 x 2.11	3/4" SCH 10S	0.07	38
26.67 x 2.87	3/4" SCH 40S	0.09	38
26.67 x 3.91	3/4" SCH 80S	0.11	38
26.67 x 5.56	3/4" SCH 160	0.23	38
33.40 x 2.77	1" SCH 10S	0.14	38
33.40 x 3.38	1" SCH 40S	0.16	38
33.40 x 4.55	1" SCH 80S	0.22	38
33.40 x 6.35	1" SCH 160	0.25	38
42.16 x 2.77	1.1/4" SCH 10S	0.23	48
42.16 x 3.56	1.1/4" SCH 40S	0.25	48
42.16 x 4.85	1.1/4" SCH 80S	0.40	48
42.16 x 6.35	1.1/4" SCH 160	0.42	48
48.26 x 2.77	1.1/2" SCH 10S	0.30	57
48.26 x 3.68	1.1/2" SCH 40S	0.40	57
48.26 x 5.08	1.1/2" SCH 80S	0.51	57
48.26 x 7.14	1.1/2" SCH 160	0.65	57
60.33 x 2.77	2" SCH 10S	0.51	76
60.33 x 3.91	2" SCH 40S	0.71	76
60.33 x 5.54	2" SCH 80S	0.91	76
60.33 x 8.71	2" SCH 160	1.33	76
73.03 x 3.05	2.1/2" SCH 10S	0.85	95
73.03 x 5.16	2.1/2" SCH 40S	1.36	95
73.03 x 7.01	2.1/2" SCH 80S	1.81	95
73.03 x 9.53	2.1/2" SCH 160	2.33	95
88.90 x 3.05	3" SCH 10S	1.22	114
88.90 x 5.49	3" SCH 40S	2.18	114

Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	Raggio Radius
88.90 x 7.62	3" SCH 80S	2.98	114
88.90 x 11.13	3" SCH 160	3.83	114
114.30 x 3.05	4" SCH 10S	2.15	152
114.30 x 6.02	4" SCH 40S	4.17	152
114.30 x 8.56	4" SCH 80S	6.18	152
114.30 x 13.49	4" SCH 160	8.02	152
141.30 x 3.40	5" SCH 10S	3.63	190
141.30 x 6.55	5" SCH 40S	6.86	190
141.30 x 9.53	5" SCH 80S	9.58	190
168.28 x 3.40	6" SCH 10S	4.90	229
168.28 x 7.11	6" SCH 40S	10.90	229
168.28 x 10.97	6" SCH 80S	16.33	229
219.08 x 3.76	8" SCH 10S	10.66	305
219.08 x 8.18	8" SCH 40S	21.50	305
219.08 x 12.70	8" SCH 80S	33.11	305
273.05 x 4.19	10" SCH 10S	19.50	381
273.05 x 9.27	10" SCH 40S	38.60	381
323.85 x 4.57	12" SCH 10S	27.22	457
323.85 x 9.53	12" SCH 40S	59.40	457
355.60 x 4.78	14" SCH 10S	36.30	533
355.60 x 9.53	14" SCH 40S	70.30	533
406.40 x 4.78	16" SCH 10S	47.63	610
406.40 x 9.53	16" SCH 40S	91.60	610
457.20 x 4.78	18" SCH 10S	59.87	686
457.20 x 9.53	18" SCH 40S	113.00	686
508.00 x 5.54	20" SCH 10S	99.79	762
508.00 x 9.52	20" SCH 40S	140.00	762
609.60 x 6.35	24" SCH 10S	140.61	914
609.60 x 9.52	24" SCH 40S	207.80	914

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

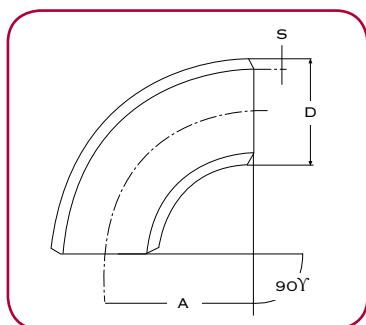


CURVE 90° RAGGIO = 1D

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

SHORT RADIUS ELBOWS 90°

ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L



Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
33.40 x 2.77	1" SCH 10S	0.10	25
33.40 x 3.38	1" SCH 40S	0.12	25
33.40 x 4.55	1" SCH 80S	0.13	25
42.16 x 3.56	1.1/4" SCH 40S	0.20	32
42.16 x 4.85	1.1/4" SCH 80S	0.22	32
48.26 x 2.77	1.1/2" SCH 10S	0.22	38
48.26 x 3.68	1.1/2" SCH 40S	0.29	38
48.26 x 5.08	1.1/2" SCH 80S	0.32	38
60.33 x 2.77	2" SCH 10S	0.37	51
60.33 x 3.91	2" SCH 40S	0.51	51
60.33 x 5.54	2" SCH 80S	0.60	51
73.03 x 3.05	2.1/2" SCH 10S	0.62	64
73.03 x 5.16	2.1/2" SCH 40S	1.02	64
73.03 x 7.01	2.1/2" SCH 80S	1.14	64
88.90 x 3.05	3" SCH 10S	0.98	76
88.90 x 5.49	3" SCH 40S	1.50	76
88.90 x 7.62	3" SCH 80S	1.85	76
114.30 x 3.05	4" SCH 10S	1.72	102
114.30 x 6.02	4" SCH 40S	3.12	102

Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
114.30 x 8.56	4" SCH 80S	3.56	102
141.30 x 3.40	5" SCH 10S	2.78	127
141.30 x 6.55	5" SCH 40S	5.28	127
168.28 x 3.40	6" SCH 10S	4.15	152
168.28 x 7.11	6" SCH 40S	7.15	152
168.28 x 10.97	6" SCH 80S	11.79	152
219.08 x 3.76	8" SCH 10S	8.00	203
219.08 x 8.18	8" SCH 40S	17.05	203
273.05 x 4.19	10" SCH 10S	12.40	254
273.05 x 9.27	10" SCH 40S	24.00	254
323.85 x 4.57	12" SCH 10S	17.20	305
323.85 x 9.53	12" SCH 40S	38.10	305
355.60 x 4.78	14" SCH 10S	23.59	356
355.60 x 9.78	14" SCH 40S	45.40	356
406.40 x 4.78	16" SCH 10S	30.84	406
406.40 x 9.53	16" SCH 40S	59.40	406
457.20 x 4.78	18" SCH 10S	39.50	457
508.00 x 5.54	20" SCH 10S	65.00	508
609.60 x 6.35	24" SCH 10S	92.00	610

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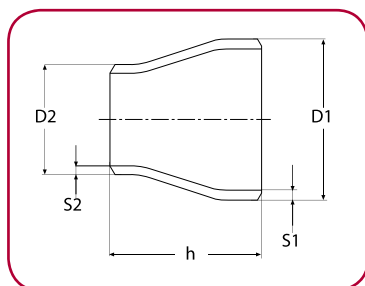


RIDUZIONI CONCENTRICHE

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

CONCENTRIC REDUCERS

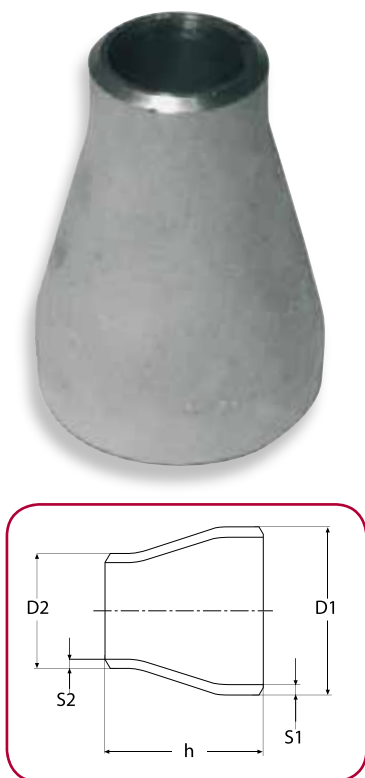
ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L



Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/ pcs.	H
26.67 x 21.33	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.10	38
26.67 x 21.33	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.14	38
26.67 x 21.33	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.18	38
33.40 x 21.33	2.77 x 2.11	1" x 1/2" SCH 10S	0.12	51
33.40 x 21.33	3.38 x 2.77	1" x 1/2" SCH 40S	0.15	51
33.40 x 21.33	4.55 x 3.73	1" x 1/2" SCH 80S	0.20	51
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.13	51
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.16	51
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.22	51
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.18	51
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.22	51
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.25	51
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.18	51
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.22	51
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.27	51
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.20	64
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.26	64
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.37	64
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.20	64
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.26	64
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.37	64
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.21	64
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.28	64

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/ pcs.	H
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.36	64
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.25	76
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.37	76
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.41	76
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.28	76
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.40	76
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	0.54	76
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.30	76
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.44	76
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	0.48	76
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.31	76
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.45	76
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	0.59	76
73.03 x 42.16	3.05 x 2.77	2.1/2" x 1.1/4" SCH 10S	0.37	89
73.03 x 42.16	5.16 x 3.56	2.1/2" x 1.1/4" SCH 40S	0.63	89
73.03 x 42.16	7.01 x 4.85	2.1/2" x 1.1/4" SCH 80S	0.78	89
73.03 x 48.30	3.05 x 2.77	2.1/2" x 1.1/2" SCH 10S	0.44	89
73.03 x 48.30	5.16 x 3.68	2.1/2" x 1.1/2" SCH 40S	0.77	89
73.03 x 48.30	7.01 x 5.08	2.1/2" x 1.1/2" SCH 80S	0.83	89
73.03 x 60.30	3.05 x 2.77	2.1/2" x 2" SCH 10S	0.47	89
73.03 x 60.30	5.16 x 3.91	2.1/2" x 2" SCH 40S	0.80	89
73.03 x 60.30	7.01 x 5.54	2.1/2" x 2" SCH 80S	1.03	89
88.90 x 33.40	3.05 x 2.77	3" x 1" SCH 10S	0.49	89

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RIDUZIONI CONCENTRICHE

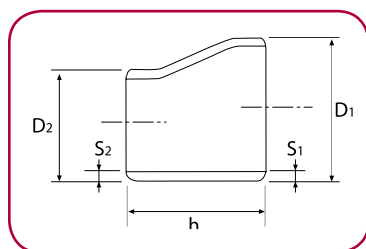
ASME B16.9 ASTM A 403
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CONCENTRIC REDUCERS

ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H	Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H
88.90 x 33.40	5.49 x 3.38	3" x 1" SCH 40S	0.85	89	168.28 x 88.9	7.11 x 5.49	6" x 3" SCH 40S	3.98	140
88.90 x 33.40	7.62 x 4.55	3" x 1" SCH 80S	0.97	89	168.28 x 88.9	10.97 x 8.56	6" x 3" SCH 80S	5.51	140
88.90 x 42.16	3.05 x 2.77	3" x 1.1/4" SCH 10S	0.43	89	168.28 x 114.30	3.40 x 3.05	6" x 4" SCH 10S	1.95	140
88.90 x 42.16	5.49 x 3.56	3" x 1.1/4" SCH 40S	0.75	89	168.28 x 114.30	7.11 x 6.02	6" x 4" SCH 40S	4.08	140
88.90 x 42.16	7.62 x 4.85	3" x 1.1/4" SCH 80S	0.95	89	168.28 x 114.30	10.97 x 8.56	6" x 4" SCH 80S	5.96	140
88.90 x 48.26	3.05 x 2.77	3" x 1.1/2" SCH 10S	0.51	89	168.28 x 141.30	3.40 x 3.40	6" x 5" SCH 10S	2.05	140
88.90 x 48.26	5.49 x 3.68	3" x 1.1/2" SCH 40S	0.94	89	168.28 x 141.30	8.18 x 7.11	6" x 5" SCH 40S	4.18	140
88.90 x 48.26	7.62 x 5.08	3" x 1.1/2" SCH 80S	1.21	89	219.08 x 114.30	3.76 x 3.05	8" x 4" SCH 10S	3.02	152
88.90 x 60.30	3.05 x 2.77	3" x 2" SCH 10S	0.55	89	219.08 x 114.30	8.18 x 6.02	8" x 4" SCH 40S	6.55	152
88.90 x 60.30	5.49 x 3.91	3" x 2" SCH 40S	1.00	89	219.08 x 141.30	3.76 x 3.40	8" x 5" SCH 10S	3.08	152
88.90 x 60.30	7.62 x 5.54	3" x 2" SCH 80S	1.29	89	219.08 x 141.30	8.18 x 6.55	8" x 5" SCH 40S	6.70	152
88.90 x 73.03	3.05 x 3.05	3" x 2.1/2" SCH 10S	0.59	89	219.08 x 168.30	3.76 x 3.40	8" x 6" SCH 10S	3.19	152
88.90 x 73.03	5.49 x 5.16	3" x 2.1/2" SCH 40S	1.08	89	219.08 x 168.30	8.18 x 7.11	8" x 6" SCH 40S	6.94	152
88.90 x 73.03	7.62 x 7.01	3" x 2.1/2" SCH 80S	1.49	89	273.05 x 168.28	4.19 x 3.40	10" x 6" SCH 10S	5.00	178
114.30 x 48.26	3.05 x 2.77	4" x 1.1/2" SCH 10S	0.62	102	273.05 x 168.28	9.27 x 7.11	10" x 6" SCH 40S	11.12	178
114.30 x 48.26	6.02 x 3.68	4" x 1.1/2" SCH 40S	1.18	102	273.05 x 219.08	4.19 x 3.76	10" x 8" SCH 10S	5.25	178
114.30 x 48.26	8.56 x 5.08	4" x 1.1/2" SCH 80S	1.64	102	273.05 x 219.08	9.27 x 8.18	10" x 8" SCH 40S	11.56	178
114.30 x 60.30	3.05 x 2.77	4" x 2" SCH 10S	0.78	102	323.85 x 168.28	4.57 x 3.40	12" x 6" SCH 10S	6.58	203
114.30 x 60.30	6.02 x 3.91	4" x 2" SCH 40S	1.57	102	323.85 x 168.28	9.53 x 7.11	12" x 6" SCH 40S	12.80	203
114.30 x 60.30	8.56 x 5.54	4" x 2" SCH 80S	1.95	102	323.85 x 219.08	4.57 x 3.76	12" x 8" SCH 10S	7.67	203
114.30 x 73.03	3.05 x 3.05	4" x 2.1/2" SCH 10S	0.83	102	323.85 x 219.08	9.53 x 8.18	12" x 8" SCH 40S	15.98	203
114.30 x 73.03	6.02 x 5.16	4" x 2.1/2" SCH 40S	1.66	102	323.85 x 273.05	4.57 x 4.19	12" x 10" SCH 10S	7.98	203
114.30 x 73.03	8.56 x 7.01	4" x 2.1/2" SCH 80S	1.97	102	323.85 x 273.05	9.53 x 9.27	12" x 10" SCH 40S	16.63	203
114.30 x 88.90	3.05 x 3.05	4" x 3" SCH 10S	0.87	102	355.60 x 273.05	4.78 x 4.19	14" x 10" SCH 10S	14.41	330
114.30 x 88.90	6.02 x 5.49	4" x 3" SCH 40S	1.74	102	355.60 x 273.05	9.53 x 9.27	14" x 10" SCH 40S	23.60	330
114.30 x 88.90	8.56 x 7.62	4" x 3" SCH 80S	2.33	102	355.60 x 323.85	4.78 x 4.57	14" x 12" SCH 10S	15.29	330
141.30 x 88.90	3.40 x 3.05	5" x 3" SCH 10S	1.45	127	355.60 x 323.85	9.53 x 9.53	14" x 12" SCH 40S	25.40	330
141.30 x 88.90	6.55 x 5.49	5" x 3" SCH 40S	2.85	127	406.40 x 323.85	4.78 x 4.57	16" x 12" SCH 10S	18.35	356
141.30 x 114.30	3.40 x 3.05	5" x 4" SCH 10S	1.49	127	406.40 x 323.85	9.53 x 9.53	16" x 12" SCH 40S	29.60	356
141.30 x 114.30	6.55 x 6.02	5" x 4" SCH 40S	2.98	127	406.40 x 355.60	4.78 x 4.78	16" x 14" SCH 10S	18.90	356
168.28 x 88.9	3.40 x 3.05	6" x 3" SCH 10S	1.82	140	406.40 x 355.60	9.53 x 9.53	16" x 14" SCH 40S	31.00	356

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ECCENTRIC REDUCERS

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Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H
26.67 x 21.33	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.10	38
26.67 x 21.33	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.14	38
26.67 x 21.33	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.18	38
33.40 x 21.33	2.77 x 2.11	1" x 1/2" SCH 10S	0.12	51
33.40 x 21.33	3.38 x 2.77	1" x 1/2" SCH 40S	0.15	51
33.40 x 21.33	4.55 x 3.73	1" x 1/2" SCH 80S	0.20	51
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.13	51
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.16	51
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.22	51
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.18	51
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.22	51
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.25	51
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.18	51
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.22	51
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.27	51
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.20	64
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.26	64
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.37	64
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.20	64
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.26	64
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.37	64
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.21	64
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.28	64

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.36	64
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.25	76
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.37	76
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.41	76
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.28	76
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.40	76
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	0.54	76
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.30	76
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.44	76
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	0.48	76
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.31	76
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.45	76
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	0.59	76
73.03 x 42.16	3.05 x 2.77	2.1/2" x 1.1/4" SCH 10S	0.37	89
73.03 x 42.16	5.16 x 3.56	2.1/2" x 1.1/4" SCH 40S	0.63	89
73.03 x 42.16	7.01 x 4.85	2.1/2" x 1.1/4" SCH 80S	0.78	89
73.03 x 48.30	3.05 x 2.77	2.1/2" x 1.1/2" SCH 10S	0.44	89
73.03 x 48.30	5.16 x 3.68	2.1/2" x 1.1/2" SCH 40S	0.77	89
73.03 x 48.30	7.01 x 5.08	2.1/2" x 1.1/2" SCH 80S	0.83	89
73.03 x 60.30	3.05 x 2.77	2.1/2" x 2" SCH 10S	0.47	89
73.03 x 60.30	5.16 x 3.91	2.1/2" x 2" SCH 40S	0.80	89
73.03 x 60.30	7.01 x 5.54	2.1/2" x 2" SCH 80S	1.03	89
88.90 x 33.40	3.05 x 2.77	3" x 1" SCH 10S	0.49	89

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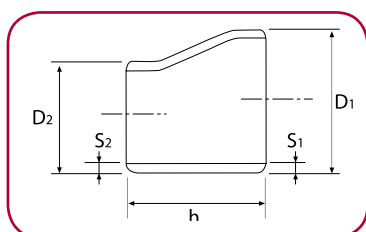


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ECCENTRIC REDUCERS

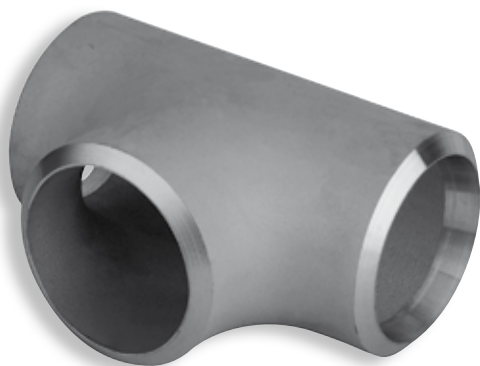
ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L



Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H
88.90 x 33.40	5.49 x 3.38	3" x 1" SCH 40S	0.85	89
88.90 x 33.40	7.62 x 4.55	3" x 1" SCH 80S	0.97	89
88.90 x 42.16	3.05 x 2.77	3" x 1.1/4" SCH 10S	0.43	89
88.90 x 42.16	5.49 x 3.56	3" x 1.1/4" SCH 40S	0.75	89
88.90 x 42.16	7.62 x 4.85	3" x 1.1/4" SCH 80S	0.95	89
88.90 x 48.26	3.05 x 2.77	3" x 1.1/2" SCH 10S	0.51	89
88.90 x 48.26	5.49 x 3.68	3" x 1.1/2" SCH 40S	0.94	89
88.90 x 48.26	7.62 x 5.08	3" x 1.1/2" SCH 80S	1.21	89
88.90 x 60.30	3.05 x 2.77	3" x 2" SCH 10S	0.55	89
88.90 x 60.30	5.49 x 3.91	3" x 2" SCH 40S	1.00	89
88.90 x 60.30	7.62 x 5.54	3" x 2" SCH 80S	1.29	89
88.90 x 73.03	3.05 x 3.05	3" x 2.1/2" SCH 10S	0.59	89
88.90 x 73.03	5.49 x 5.16	3" x 2.1/2" SCH 40S	1.08	89
88.90 x 73.03	7.62 x 7.01	3" x 2.1/2" SCH 80S	1.49	89
114.30 x 48.26	3.05 x 2.77	4" x 1.1/2" SCH 10S	0.71	102
114.30 x 48.26	6.02 x 3.68	4" x 1.1/2" SCH 40S	1.18	102
114.30 x 48.26	8.56 x 5.08	4" x 1.1/2" SCH 80S	1.64	102
114.30 x 60.30	3.05 x 2.77	4" x 2" SCH 10S	0.78	102
114.30 x 60.30	6.02 x 3.91	4" x 2" SCH 40S	1.57	102
114.30 x 60.30	8.56 x 5.54	4" x 2" SCH 80S	1.95	102
114.30 x 73.03	3.05 x 3.05	4" x 2.1/2" SCH 10S	0.83	102
114.30 x 73.03	6.02 x 5.16	4" x 2.1/2" SCH 40S	1.66	102
114.30 x 73.03	8.56 x 7.01	4" x 2.1/2" SCH 80S	1.97	102
114.30 x 88.90	3.05 x 3.05	4" x 3" SCH 10S	0.87	102
114.30 x 88.90	6.02 x 5.49	4" x 3" SCH 40S	1.74	102
114.30 x 88.90	8.56 x 7.62	4" x 3" SCH 80S	2.33	102
141.30 x 88.90	3.40 x 3.05	5" x 3" SCH 10S	1.45	127
141.30 x 88.90	6.55 x 5.49	5" x 3" SCH 40S	2.85	127
141.30 x 114.30	3.40 x 3.05	5" x 4" SCH 10S	1.49	127
141.30 x 114.30	6.55 x 6.02	5" x 4" SCH 40S	2.98	127
168.28 x 88.9	3.40 X 3.05	6" x 4" SCH 10S	1.82	140

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	H
168.28 x 88.9	7.11 X 5.49	6" x 4" SCH 40S	3.98	140
168.28 x 88.9	10.97 X 8.56	6" x 4" SCH 80S	5.51	140
168.28 x 114.30	3.40 x 3.05	6" x 4" SCH 10S	1.95	140
168.28 x 114.30	7.11 x 6.02	6" x 4" SCH 40S	4.08	140
168.28 x 114.30	10.97 x 8.56	6" x 4" SCH 80S	5.96	140
168.28 x 141.30	3.40 x 3.40	6" x 5" SCH 10S	2.05	140
168.28 x 141.30	8.18 x 7.11	6" x 5" SCH 40S	4.18	140
219.08 x 114.30	3.76 x 3.05	8" x 4" SCH 10S	3.02	152
219.08 x 114.30	8.18 x 6.02	8" x 4" SCH 40S	6.55	152
219.08 x 141.30	3.76 x 3.40	8" x 5" SCH 10S	3.08	152
219.08 x 141.30	8.18 x 6.55	8" x 5" SCH 40S	6.70	152
219.08 x 168.30	3.76 x 3.40	8" x 6" SCH 10S	3.19	152
219.08 x 168.30	8.18 x 7.11	8" x 6" SCH 40S	6.94	152
273.05 x 168.28	4.19 x 3.40	10" x 6" SCH 10S	5.00	178
273.05 x 168.28	9.27 x 7.11	10" x 6" SCH 40S	11.12	178
273.05 x 219.08	4.19 x 3.76	10" x 8" SCH 10S	5.25	178
273.05 x 219.08	9.27 x 8.18	10" x 8" SCH 40S	11.56	178
323.85 x 168.28	4.57 x 3.40	12" x 6" SCH 10S	6.58	203
323.85 x 168.28	9.53 x 7.11	12" x 6" SCH 40S	12.80	203
323.85 x 219.08	4.57 x 3.76	12" x 8" SCH 10S	7.67	203
323.85 x 219.08	9.53 x 8.18	12" x 8" SCH 40S	15.98	203
323.85 x 273.05	4.57 x 4.19	12" x 10" SCH 10S	7.98	203
323.85 x 273.05	9.53 x 9.27	12" x 10" SCH 40S	16.63	203
355.60 x 273.05	4.78 x 4.19	14" x 10" SCH 10S	14.41	330
355.60 x 273.05	9.53 x 9.27	14" x 10" SCH 40S	23.60	330
355.60 x 323.85	4.78 x 4.57	14" x 12" SCH 10S	15.29	330
355.60 x 323.85	9.53 x 9.53	14" x 12" SCH 40S	25.40	330
406.40 x 323.85	4.78 x 4.57	16" x 12" SCH 10S	18.35	356
406.40 x 323.85	9.53 x 9.53	16" x 12" SCH 40S	29.60	356
406.40 x 355.60	4.78 x 4.78	16" x 14" SCH 10S	18.90	356
406.40 x 355.60	9.53 x 9.53	16" x 14" SCH 40S	31.00	356

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

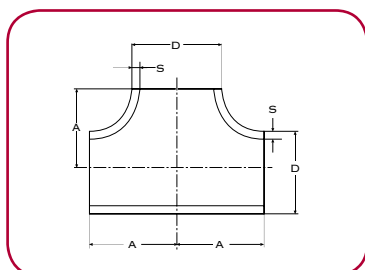


TEES UGUALI

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

EQUAL TEES

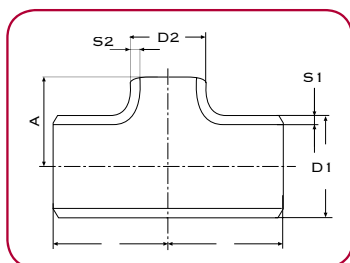
ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L



Ø est. mm x Sp. mm Outs. Ø mm x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
21.34 x 2.11	1/2" SCH 10S	0.07	25
21.34 x 2.77	1/2" SCH 40S	0.08	25
21.34 x 3.73	1/2" SCH 80S	0.14	25
21.34 x 4.75	1/2" SCH 160	0.15	25
26.67 x 2.11	3/4" SCH 10S	0.09	29
26.67 x 2.87	3/4" SCH 40S	0.11	29
26.67 x 3.91	3/4" SCH 80S	0.20	29
26.67 x 5.54	3/4" SCH 160	0.30	29
33.40 x 2.77	1" SCH 10S	0.20	38
33.40 x 3.38	1" SCH 40S	0.24	38
33.40 x 4.55	1" SCH 80S	0.39	38
33.40 x 6.35	1" SCH 160	0.47	38
42.16 x 2.77	1.1/4" SCH 10S	0.33	48
42.16 x 3.56	1.1/4" SCH 40S	0.41	48
42.16 x 4.85	1.1/4" SCH 80S	0.54	48
42.16 x 6.35	1.1/4" SCH 160	0.89	48
48.26 x 2.77	1.1/2" SCH 10S	0.46	57
48.26 x 3.68	1.1/2" SCH 40S	0.60	57
48.26 x 5.08	1.1/2" SCH 80S	1.02	57
48.26 x 7.14	1.1/2" SCH 160	1.43	57
60.33 x 2.77	2" SCH 10S	0.63	64
60.33 x 3.91	2" SCH 40S	0.87	64
60.33 x 5.54	2" SCH 80S	1.60	64
60.33 x 8.71	2" SCH 160	3.18	64
73.03 x 3.05	2.1/2" SCH 10S	1.10	76
73.03 x 5.16	2.1/2" SCH 40S	1.70	76
73.03 x 7.01	2.1/2" SCH 80S	3.63	76
88.90 x 3.05	3" SCH 10S	1.37	86

Ø est. mm x Sp. mm Outs. Ø mm x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
88.90 x 5.49	3" SCH 40S	1.90	86
88.90 x 7.62	3" SCH 80S	4.45	86
88.90 x 11.13	3" SCH 160	5.87	86
101.6 x 3.05	31/2" SCH 10S	1.74	95
101.6 x 5.74	31/2" SCH 40S	3.19	95
114.30 x 3.05	4" SCH 10S	2.15	105
114.30 x 6.02	4" SCH 40S	4.13	105
114.30 x 8.56	4" SCH 80S	7.70	105
114.30 x 13.49	4" SCH 160	9.76	105
141.30 x 3.40	5" SCH 10S	3.48	124
141.30 x 6.55	5" SCH 40S	6.55	124
168.28 x 3.40	6" SCH 10S	4.76	143
168.28 x 7.11	6" SCH 40S	9.73	143
168.28 x 10.97	6" SCH 80S	13.61	143
219.08 x 3.76	8" SCH 10S	8.46	178
219.08 x 8.18	8" SCH 40S	18.00	178
219.08 x 12.70	8" SCH 80S	27.40	178
273.05 x 4.19	10" SCH 10S	14.20	216
273.05 x 9.27	10" SCH 40S	30.60	216
323.85 x 4.57	12" SCH 10S	21.60	254
323.85 x 9.53	12" SCH 40S	44.30	254
355.60 x 4.78	14" SCH 10S	48.53	279
355.60 x 9.53	14" SCH 40S	79.38	279
406.40 x 4.77	16" SCH 10S	58.90	305
406.40 x 9.53	16" SCH 40S	99.70	305

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



TEES RIDOTTI

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

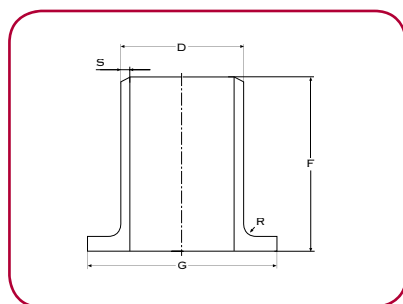
REDUCING TEES

ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
26.67 x 21.34	2.11 x 2.11	3/4" x 1/2" SCH 10S	0.11	29
26.67 x 21.34	2.87 x 2.77	3/4" x 1/2" SCH 40S	0.15	29
26.67 x 21.34	3.91 x 3.73	3/4" x 1/2" SCH 80S	0.19	29
33.40 x 21.30	2.77 x 2.11	1" x 1/2" SCH 10S	0.19	38
33.40 x 21.30	3.38 x 2.77	1" x 1/2" SCH 40S	0.22	38
33.40 x 21.30	4.55 x 3.73	1" x 1/2" SCH 80S	0.28	38
33.40 x 26.67	2.77 x 2.11	1" x 3/4" SCH 10S	0.19	38
33.40 x 26.67	3.38 x 2.87	1" x 3/4" SCH 40S	0.23	38
33.40 x 26.67	4.55 x 3.91	1" x 3/4" SCH 80S	0.29	38
42.16 x 26.67	2.77 x 2.11	1.1/4" x 3/4" SCH 10S	0.44	48
42.16 x 26.67	3.56 x 2.87	1.1/4" x 3/4" SCH 40S	0.53	48
42.16 x 26.67	4.85 x 3.91	1.1/4" x 3/4" SCH 80S	0.66	48
42.16 x 33.40	2.77 x 2.77	1.1/4" x 1" SCH 10S	0.45	48
42.16 x 33.40	3.56 x 3.38	1.1/4" x 1" SCH 40S	0.53	48
42.16 x 33.40	4.85 x 4.55	1.1/4" x 1" SCH 80S	0.60	48
48.26 x 21.30	2.77 x 2.11	1.1/2" x 1/2" SCH 10S	0.39	57
48.26 x 21.30	3.68 x 2.77	1.1/2" x 1/2" SCH 40S	0.51	57
48.26 x 21.30	5.08 x 3.73	1.1/2" x 1/2" SCH 80S	0.67	57
48.26 x 26.67	2.77 x 2.11	1.1/2" x 3/4" SCH 10S	0.40	57
48.26 x 26.67	3.68 x 2.87	1.1/2" x 3/4" SCH 40S	0.52	57
48.26 x 26.67	5.08 x 3.91	1.1/2" x 3/4" SCH 80S	0.69	57
48.26 x 33.40	2.77 x 2.77	1.1/2" x 1" SCH 10S	0.42	57
48.26 x 33.40	3.68 x 3.38	1.1/2" x 1" SCH 40S	0.55	57
48.26 x 33.40	5.08 x 4.55	1.1/2" x 1" SCH 80S	0.73	57
48.26 x 42.16	2.77 x 2.77	1.1/2" x 1.1/4" SCH 10S	0.44	57
48.26 x 42.16	3.68 x 3.56	1.1/2" x 1.1/4" SCH 40S	0.57	57
48.26 x 42.16	5.08 x 4.85	1.1/2" x 1.1/4" SCH 80S	0.77	57
60.33 x 26.67	2.77 x 2.11	2" x 3/4" SCH 10S	0.51	64
60.33 x 26.67	3.91 x 2.87	2" x 3/4" SCH 40S	0.71	64
60.33 x 26.67	5.54 x 3.91	2" x 3/4" SCH 80S	0.99	64
60.33 x 33.40	2.77 x 2.77	2" x 1" SCH 10S	0.54	64
60.33 x 33.40	3.91 x 3.38	2" x 1" SCH 40S	0.74	64
60.33 x 33.40	5.54 x 4.55	2" x 1" SCH 80S	1.02	64
60.33 x 42.16	2.77 x 2.77	2" x 1.1/4" SCH 10S	0.57	64
60.33 x 42.16	3.91 x 3.56	2" x 1.1/4" SCH 40S	0.80	64
60.33 x 42.16	5.54 x 4.85	2" x 1.1/4" SCH 80S	1.07	64
60.33 x 48.26	2.77 x 2.77	2" x 1.1/2" SCH 10S	0.59	64

Ø est. x Ø est. Outs. Ø x Outs. Ø	Sp. x Sp. mm Thck. x Thck. mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	A
60.33 x 48.26	3.91 x 3.68	2" x 1.1/2" SCH 40S	0.83	64
60.33 x 48.26	5.54 x 5.08	2" x 1.1/2" SCH 80S	1.11	64
73.03 x 33.40	3.05 x 2.77	2 1/2" x 1" SCH 10	0.88	76
73.03 x 33.40	5.16 x 3.38	2 1/2" x 1" SCH 40	1.35	76
73.03 x 48.26	3.05 x 2.77	2 1/2" x 1 1/2" SCH 10	0.90	76
73.03 x 48.26	5.16 x 3.68	2 1/2" x 1 1/2" SCH 40	1.49	76
73.03 x 60.30	3.05 x 2.77	2 1/2" x 2" SCH 10	0.94	76
73.03 x 60.30	5.16 x 3.91	2 1/2" x 2" SCH 40	1.53	76
88.90 x 33.40	3.05 x 2.77	3" x 1" SCH 10S	1.15	86
88.90 x 33.40	5.49 x 3.38	3" x 1" SCH 40S	2.05	86
88.90 x 48.30	3.05 x 2.77	3" x 1.1/2" SCH 10S	1.19	86
88.90 x 48.30	5.49 x 3.68	3" x 1.1/2" SCH 40S	2.05	86
88.90 x 48.30	7.62 x 5.08	3" x 1.1/2" SCH 80S	2.77	86
88.90 x 60.33	3.05 x 2.77	3" x 2" SCH 10S	1.23	86
88.90 x 60.33	5.49 x 3.91	3" x 2" SCH 40S	2.16	86
88.90 x 60.33	7.62 x 5.54	3" x 2" SCH 80S	2.85	86
88.90 x 73.03	3.05 x 3.05	3" x 2.1/2" SCH 10S	1.31	86
88.90 x 73.03	5.49 x 5.16	3" x 2.1/2" SCH 40S	2.29	86
114.30 x 60.33	3.05 x 2.77	4" x 2" SCH 10S	2.35	105
114.30 x 60.33	6.02 x 3.91	4" x 2" SCH 40S	4.50	105
114.30 x 60.33	8.56 x 5.54	4" x 2" SCH 80S	4.91	105
114.30 x 73.03	3.05 x 3.05	4" x 2.1/2" SCH 10S	2.45	105
114.30 x 73.03	6.02 x 5.16	4" x 2.1/2" SCH 40S	4.70	105
114.30 x 88.90	3.05 x 3.05	4" x 3" SCH 10S	2.50	105
114.30 x 88.90	6.02 x 5.49	4" x 3" SCH 40S	4.80	105
114.30 x 88.90	8.56 x 7.62	4" x 3" SCH 80S	5.31	105
141.30 x 88.9	3.40 x 3.05	5" x 3" SCH 10S	3.13	124
141.30 x 88.9	6.55 x 5.49	5" x 3" SCH 40S	5.85	124
141.30 x 114.3	3.40 x 3.05	5" x 4" SCH 10S	3.26	124
141.30 x 114.3	6.55 x 6.02	5" x 4" SCH 40S	6.14	124
168.28 x 88.90	7.11 x 5.49	6" x 3" SCH 40S	9.80	124
168.28 x 114.30	3.40 x 3.05	6" x 4" SCH 10S	5.10	143
168.28 x 114.30	7.11 x 6.02	6" x 4" SCH 40S	10.00	143
219.08 x 114.30	3.40 x 3.05	8" x 4" SCH 10S	8.00	178
219.08 x 114.30	8.18 x 6.02	8" x 4" SCH 40S	17.50	178
219.08 x 168.28	3.76 x 3.40	8" x 6" SCH 10S	8.40	178
219.08 x 168.28	8.18 x 7.11	8" x 6" SCH 40S	18.10	178

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



STUB-ENDS SHORT LENGTH

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

CARATTERISTICHE TECNICHE

Ricavati da tubo senza saldatura o saldato.
Norme dimensionali e tolleranze: ASME B16.9/B16.25
MARCATURA: in accordo ASTM/ASME B16.9 e MSS SP-25

CERTIFICATI EN 10204/3.1

STUB-ENDS SHORT LENGTH

ASME B16.9 ASTM A 403
WP 304/304L AND WP 316/316L

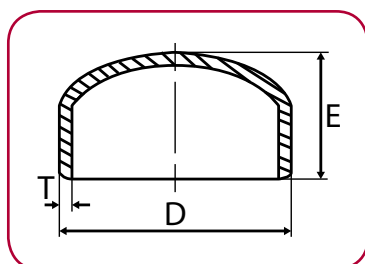
TECHNICAL INFORMATION

Made from seamless or welded pipe.
Dimensional standard and tolerances: ASME B16.9/B16.25
MARKING: according to ASTM/ASME B16.9 and MSS SP-25

CERTIFICATES EN 10204/3.1

Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	F	G	R
21.34 x 2.11	1/2" SCH 10S	0.07	50.8	34.9	3.18
21.34 x 2.77	1/2" SCH 40S	0.09	50.8	34.9	3.18
26.67 x 2.11	3/4" SCH 10S	0.10	50.8	42.9	3.18
26.67 x 2.87	3/4" SCH 40S	0.12	50.8	42.9	3.18
33.40 x 2.77	1" SCH 10S	0.16	50.8	50.8	3.18
33.40 x 3.38	1" SCH 40S	0.17	50.8	50.8	3.18
42.16 x 2.77	1.1/4" SCH 10S	0.22	50.8	63.5	4.76
42.16 x 3.56	1.1/4" SCH 40S	0.25	50.8	63.5	4.76
48.26 x 2.77	1.1/2" SCH 10S	0.25	50.8	73.0	6.35
48.26 x 3.68	1.1/2" SCH 40S	0.31	50.8	73.0	6.35
60.33 x 2.77	2" SCH 10S	0.43	63.5	92.1	7.94
60.33 x 3.91	2" SCH 40S	0.61	63.5	92.1	7.94
73.03 x 3.05	2.1/2" SCH 10S	0.57	63.5	104.8	7.94
73.03 x 5.16	2.1/2" SCH 40S	0.80	63.5	104.8	7.94
88.90 x 3.05	3" SCH 10S	0.73	63.5	127.0	9.53
88.90 x 5.49	3" SCH 40S	1.13	63.5	127.0	9.53
114.30 x 3.05	4" SCH 10S	1.09	76.2	157.2	11.11
114.30 x 6.02	4" SCH 40S	1.87	76.2	157.2	11.11
141.30 x 3.40	5" SCH 10S	1.47	76.2	185.7	11.11
141.30 x 6.55	5" SCH 40S	2.28	76.2	185.7	11.11
168.28 x 3.40	6" SCH 10S	2.15	88.9	215.9	12.70
168.28 x 7.11	6" SCH 40S	3.57	88.9	215.9	12.70
219.08 x 3.76	8" SCH 10S	3.22	101.6	269.9	12.70
219.08 x 8.18	8" SCH 40S	6.07	101.6	269.9	12.70
273.05 x 4.19	10" SCH 10S	5.13	127.0	323.9	12.70
273.05 x 9.27	10" SCH 40S	10.07	127.0	323.9	12.70
323.85 x 4.57	12" SCH 10S	8.16	152.4	381.0	12.70
323.85 x 9.53	12" SCH 40S	14.29	152.4	381.0	12.70
355.60 x 4.78	14" SCH 10S	10.89	152.4	412.8	12.70
406.40 x 4.78	16" SCH 10S	12.70	152.4	469.9	12.70
457.20 x 4.78	18" SCH 10S	17.24	152.4	533.4	12.70
508.00 x 5.54	20" SCH 10S	21.77	152.4	584.2	12.70

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FONDELLI

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

CARATTERISTICHE TECNICHE

Ricavati da tubo senza saldatura.

Norme dimensionali e tolleranze: ASME B16.9/B16.25

MARCATURA: in accordo ASTM/ASME B16.9 e MSS SP-25

CERTIFICATI EN 10204/3.1

CAPS

ASME B16.9 ASTM A 403
WP 304/304L E WP 316/316L

TECHNICAL INFORMATION

Made from seamless pipe.

Dimensional standard and tolerances: ASME B16.9/B16.25

MARKING: according to ASTM/ASME B16.9 and MSS SP-25

CERTIFICATES EN 10204/3.1

Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	E
21.34 x 2.11	1/2" SCH 10S	0.04	25
21.34 x 2.77	1/2" SCH 40S	0.05	25
21.34 x 3.73	1/2" SCH 80S	0.06	25
26.67 x 2.11	3/4" SCH 10S	0.06	25
26.67 x 2.87	3/4" SCH 40S	0.07	25
26.67 x 3.91	3/4" SCH 80S	0.08	25
33.40 x 2.77	1" SCH 10S	0.09	38
33.40 x 3.38	1" SCH 40S	0.13	38
33.40 x 4.55	1" SCH 80S	0.13	38
42.16 x 2.77	1.1/4" SCH 10S	0.13	38
42.16 x 3.56	1.1/4" SCH 40S	0.17	38
42.16 x 4.85	1.1/4" SCH 80S	0.18	38
48.26 x 2.77	1.1/2" SCH 10S	0.14	38
48.26 x 3.68	1.1/2" SCH 40S	0.23	38
48.26 x 5.08	1.1/2" SCH 80S	0.24	38
60.33 x 2.77	2" SCH 10S	0.19	38
60.33 x 3.91	2" SCH 40S	0.26	38
60.33 x 5.54	2" SCH 80S	0.35	38
73.03 x 3.05	2.1/2" SCH 10S	0.25	38
73.03 x 5.16	2.1/2" SCH 40S	0.45	38
73.03 x 7.01	2.1/2" SCH 80S	0.51	38

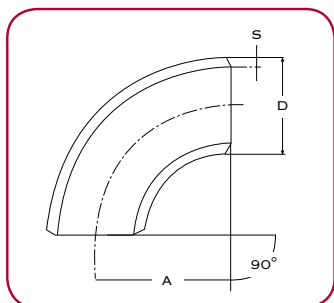
Ø est. mm x Spess. mm Outs. diam. mm x Thckn mm	Dimensioni Dimensions	Peso Kg/pz. Weight Kg/pcs.	E
88.90 x 3.05	3" SCH 10S	0.40	51
88.90 x 5.49	3" SCH 40S	0.71	51
88.90 x 7.62	3" SCH 80S	0.85	51
114.30 x 3.05	4" SCH 10S	0.65	64
114.30 x 6.02	4" SCH 40S	1.22	64
114.30 x 8.56	4" SCH 80S	1.61	64
141.30 x 3.40	5" SCH 10S	1.02	76
141.30 x 6.55	5" SCH 40S	1.91	76
168.28 x 3.40	6" SCH 10S	1.36	89
168.28 x 7.11	6" SCH 40S	3.23	89
168.28 x 10.97	6" SCH 80S	4.54	89
219.08 x 3.76	8" SCH 10S	2.49	102
219.08 x 8.18	8" SCH 40S	5.67	102
219.08 x 12.70	8" SCH 80S	7.80	102
273.05 x 4.19	10" SCH 10S	4.90	127
273.05 x 9.27	10" SCH 40S	9.21	127
273.05 x 12.70	10" SCH 80S	13.10	127
323.85 x 4.57	12" SCH 10S	6.53	152
323.85 x 9.53	12" SCH 40S	13.06	152
323.85 x 12.70	12" SCH 80S	17.30	152

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CURVE 90°

RAGGIO= 1,5 D
SENZA SALDATURA ASME B16.9



LONG RADIUS

SEAMLESS ELBOWS
(RADIUS = 1.5)

CARBON STEEL

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT
1/2"	21,3 x 2,77	Std	38*	48	0,08
	21,3 x 3,73	Xs			0,10
	21,3 x 4,75	160			0,12
	21,3 x 7,47	XXs			0,15
3/4"	26,7 x 2,87	Std	38*	51	0,09
	26,7 x 3,91	Xs			0,11
	26,7 x 5,54	160			0,12
	26,7 x 7,82	XXs			0,17
1"	33,4 x 3,38	Std	38*	56	0,15
	33,4 x 4,55	Xs			0,20
	33,4 x 6,35	160			0,26
	33,4 x 9,09	XXs			0,33
1 1/4"	42,4 x 3,56	Std	48	70	0,26
	42,4 x 4,85	Xs			0,34
1 1/2"	48,3 x 3,68	Std	57	83	0,37
	48,3 x 5,08	Xs			0,49
	48,3 x 7,14	160			0,65
	48,3 x 10,16	XXs			0,86
2"	60,3 x 3,91	Std	76	106	0,65
	60,3 x 5,54	Xs			0,90
	60,3 x 8,71	160			1,33
	60,3 x 11,07	XXs			1,61
2 1/2"	73,1 x 5,16	Std	95	132	1,29
	73,1 x 7,01	Xs			1,71
	73,1 x 9,53	160			2,23
	73,1 x 14,02	XXs			3,06
3"	88,9 x 3,96	20	114	159	1,50
	88,9 x 5,49	Std			2,03
	88,9 x 7,62	Xs			2,74
	88,9 x 11,13	160			3,83
	88,9 x 15,24	XXs			4,97

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORICAL WEIGHT
3 1/2"	101,6 x 5,74	Std	133	184	2,85
	101,6 x 8,08	Xs			3,91
4"	114,3 x 4,37	20	152	210	2,92
	114,3 x 6,02	Std			3,85
	114,3 x 8,56	Xs			5,35
	114,3 x 11,13	120			6,78
	114,3 x 13,49	160			8,03
5"	141,3 x 17,12	XXs			9,82
	141,3 x 6,55	Std	190	262	6,52
	141,3 x 9,53	Xs			9,26
	141,3 x 12,70	120			12,00
	141,3 x 15,88	160			14,70
	141,3 x 19,05	XXs			17,20
6"	168,3 x 4,76	20	229	313	6,50
	168,3 x 7,11	Std			10,20
	168,3 x 10,97	Xs			15,30
	168,3 x 14,27	120			19,50
	168,3 x 18,24	160			24,30
	168,3 x 21,95	XXs			28,50
8"	219,1 x 6,35	20	305	414	16,00
	219,1 x 7,04	30			17,60
	219,1 x 8,18	Std			20,40
	219,1 x 10,31	60			25,40
	219,1 x 12,70	Xs			30,90
	219,1 x **15,06	100			** 43,30
	219,1 x 18,24	120			43,30
	219,1 x **20,62	140			** 53,30
	219,1 x **22,23	XXs			** 53,30
	219,1 x 23,01	160			53,30

* SU RICHIESTA 28 / ON REQUEST 28

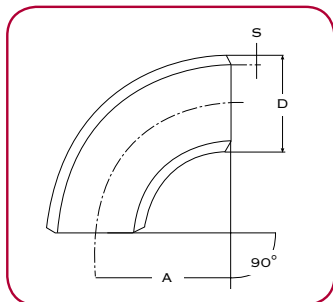
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORETICAL WEIGHT
10"	273,0 x 6,35	20	381	518	24,99
	273,0 x 7,80	30			30,53
	273,0 x 9,27	Std			36,08
	273,0 x 12,70	Xs			48,79
	273,0 x 15,06	80			57,44
	273,0 x **18,24	100			**79,60
	273,0 x 21,41	120			79,60
	273,0 x **25,40	140/ XXs			**103,10
	273,0 x 28,58	160			103,10
12"	323,9 x 6,35	20	457	619	35,70
	323,9 x 8,38	30			46,80
	323,9 x 9,53	Std			53,00
	323,9 x 10,31	40			57,30
	323,9 x 12,70	Xs			70,00
	323,9 x 14,27	60			78,20
	323,9 x 17,45	80			94,80
	323,9 x **21,41	100			**134,00
	323,9 x 25,40	120/ XXs			134,00
	323,9 x **28,58	140			**171,00
	323,9 x 33,32	160			171,00
14"	355,6 x 6,35	10	533	711	45,80
	355,6 x 7,92	20			56,90
	355,6 x 9,53	Std			68,10
	355,6 x **11,13	40			**90,00
	355,6 x 12,70	Xs			90,00
14"	355,6 x 19,05	80	533	711	132,00
	355,6 x **23,80	100			**187,91
	355,6 x 27,76	120			187,91
	355,6 x **31,75	140			**235,86
	355,6 x 35,71	160			235,86
16"	406,4 x **6,35	10	610	813	74,58
	406,4 x 7,92	20			74,58
	406,4 x 9,53	Std			89,20
	406,4 x 12,70	Xs			118,00
	406,4 x 16,66	60			153,00
	406,4 x 21,41	80			195,00
	406,4 x **26,19	100			274,51
	406,4 x 30,94	120			274,51
	406,4 x **36,53	140			350,00
	406,4 x 40,46	160			350,00

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	RAGGIO RADIUS	H	PESO TEORICO THEORETICAL WEIGHT
18"	457,0 x **6,35	10	686	914	** 113,00
	457,0 x **7,92	20			** 113,00
	457,0 x 9,53	Std			113,00
	457,0 x **11,13	30			** 150,00
	457,0 x 12,70	Xs			150,00
	457,0 x 14,27	40			168,00
	457,0 x 19,05	60			197,15
	457,0 x 23,80	80			243,63
20"	508,0 x **6,35	10	762	1016	** 140,00
	508,0 x 9,53	Std			140,00
	508,0 x 12,70	Xs			186,00
	508,0 x 15,06	40			219,00
	508,0 x **20,62	60			** 372,00
	508,0 x 26,19	80			372,00
22"	558,8 x 9,53	Std	838	1118	170,00
	558,8 x 12,70	Xs			225,00
24"	609,6 x **6,35	10	914	1219	** 202,00
	609,6 x 9,53	Std			202,00
	609,6 x 12,70	Xs			268,00
	609,6 x **14,27	30			** 366,00
	609,6 x 17,48	40			366,00
	609,6 x 24,59	60			634,00
	609,6 x 30,94	80			634,00
28"	711,0 x 7,92	10	1067	1423	230,00
	711,0 x 9,53	Std			276,00
	711,0 x 12,70	Xs			366,00
30"	762,0 x 9,53	Std	1143	1524	317,00
	762,0 x 12,70	Xs			421,00
32"	812,8 x 9,53	Std	1219	1625	361,00
	812,8 x 12,70	Xs			472,00

** TAPERED FROM HIGHER SCHEDULE

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CURVE 90°

RAGGIO= 1 D

SENZA SALDATURA ASME B16.9

**SHORT RADIUS
SEAMLESS ELBOWS**

(RADIUS = 1) ASME B16.9

CARBON STEEL

D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
1"	33,4 x 3,38	Std	25	41	0,10
1 1/4"	42,4 x 3,56	Std	32	52	0,17
1 1/2"	48,3 x 3,68	Std	38	62	0,24
2"	60,3 x 3,91	Std	51	81	0,44
	60,3 x 5,54	Xs			0,60
	60,3 x 8,71	160			0,89
2 1/2"	73,1 x 5,16	Std	64	100	0,86
3"	88,9 x 5,49	Std	76	121	1,35
	88,9 x 7,62	Xs			1,83
	88,9 x 11,13	160			2,55
4"	114,3 x 6,02	Std	102	159	2,57
	114,3 x 8,56	Xs			3,55
	114,3 x 11,13	120			4,54
	114,3 x 13,49	160			5,37
5"	141,3 x 6,55	Std	127	197	4,34
	141,3 x 9,53	Xs			6,17
6"	168,3 x 7,11	Std	152	237	4,77
	168,3 x 10,97	Xs			10,20
	168,3 x 14,27	120			12,95
	168,3 x 18,24	160			16,12
8"	219,1 x 6,35	20	203	313	10,60
	219,1 x 7,04	30			11,70
	219,1 x 8,18	Std			13,60
	219,1 x 12,70	Xs			20,60

D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
10"	273,0 x 6,35	20	254	391	16,70
	273,0 x 7,80	30			20,30
	273,0 x 9,27	Std			24,10
	273,0 x 12,70	Xs			32,50
12"	323,9 x 6,35	20	305	467	23,80
	323,9 x 8,38	30			31,20
	323,9 x 9,53	Std			35,30
	323,9 x 10,31	40			38,20
14"	323,9 x 12,70	Xs	356	533	46,70
	355,6 x 6,35	10			30,60
	355,6 x 7,92	20			37,90
	355,6 x 9,53	Std			45,40
16"	355,6 x 12,70	Xs	406	610	80,00
	406,4 x 6,35	10			40,00
	406,4 x 7,92	20			50,00
	406,4 x 9,53	Std			59,50
24"	609,6 x 6,35	10	610	914	90,50
	609,6 x 9,53	Std			135,00
	609,6 x 12,70	Xs			179,00

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CURVA SENZA SALDATURA

R=2,5 D

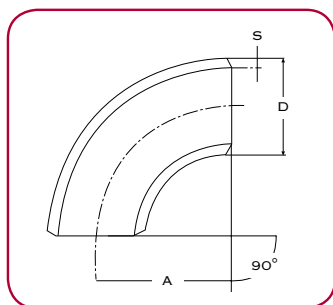
ASME B16.9

R=2.5 D

SEAMLESS ELBOWS

ASME B16.9

CARBON STEEL



D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
1"	33,4 x 3,38	Std	72,5	89	0,28
	33,4 x 4,55	Xs			0,37
1 1/4"	42,4 x 3,56	Std	92,5	114	0,50
	42,4 x 4,85	Xs			0,65
1 1/2"	48,3 x 3,68	Std	107,5	132	0,68
	48,3 x 5,08	Xs			0,91
2"	60,3 x 3,91	Std	135	165	1,15
	60,3 x 5,54	Xs			1,59
3"	88,9 x 3,96	20	205	250	2,67
	88,9 x 5,49	Std			3,64
	88,9 x 7,62	Xs			4,92
3 1/2"	101,6 x 5,74	Std	237	288	5,05
	101,6 x 8,08	Xs			6,94
4"	114,3 x 4,37	20	270	327	5,02
	114,3 x 6,02	Std			6,82
	114,3 x 8,56	Xs			9,47
6"	168,3 x 4,76	20	390	474	11,81
	168,3 x 7,11	Std			17,31
	168,3 x 10,97	Xs			26,07
8"	219,1 x 6,35	20	510	619	26,69
	219,1 x 7,04	30			29,49
	219,1 x 8,18	Std			34,09
	219,1 x 10,31	60			42,53
	219,1 x 12,70	Xs			51,79

D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
10"	273,0 x 6,35	20	650	786	42,64
	273,0 x 7,80	30			52,09
	273,0 x 9,27	Std			61,56
	273,0 x 12,70	Xs			83,24
12"	323,9 x 6,35	20	775	937	60,54
	323,9 x 8,38	30			79,38
	323,9 x 9,53	Std			89,94
	323,9 x 10,31	40			97,06
14"	323,9 x 12,70	Xs	850	1028	118,65
	355,6 x 6,35	10			73,02
	355,6 x 7,92	20			90,67
	355,6 x 9,53	Std			108,60
	355,6 x 11,13	40			126,24
16"	355,6 x 12,70	Xs	406	610	143,39
	406,4 x 6,35	10			95,46
	406,4 x 7,92	20			118,59
	406,4 x 9,53	Std			142,12
	406,4 x 12,70	Xs			187,88

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



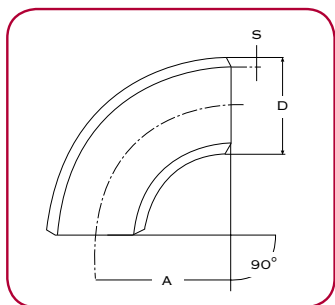
R=3D SEAMLESS ELBOWS

ASME B16.9

R=3D SEAMLESS ELBOWS

ASME B16.9

CARBON STEEL



D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
2"	60,3 x 3,91	Std	152	182	1,30
	60,3 x 5,54	Xs			1,79
3"	88,9 x 3,96	20	229	278	2,98
	88,9 x 5,49	Std			4,06
	88,9 x 7,62	Xs			5,49
4"	114,3 x 4,37	20	305	352	5,68
	114,3 x 6,02	Std			7,70
	114,3 x 8,56	Xs			10,69
6"	168,3 x 4,78	20	457	541	13,84
	168,3 x 7,11	Std			20,29
	168,3 x 10,97	Xs			30,55
8"	219,1 x 6,35	20	610	720	31,92
	219,1 x 7,04	30			35,28
	219,1 x 8,18	Std			40,77
	219,1 x 10,31	60			50,87
	219,1 x 12,70	Xs			61,94
10"	273,0 x 6,35	20	762	898	49,98
	273,0 x 7,80	30			61,06
	273,0 x 9,27	Std			72,17
	273,0 x 12,70	Xs			97,58

D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
12"	323,9 x 6,35	20	914	1078	71,40
	323,9 x 8,38	30			93,62
	323,9 x 9,53	Std			106,08
	323,9 x 10,31	40			114,47
	323,9 x 12,70	Xs			139,94
14"	355,6 x 6,35	10	1067	1245	91,67
	355,6 x 7,92	20			113,82
	355,6 x 9,53	Std			136,32
	355,6 x 11,13	40			158,47
	355,6 x 12,70	Xs			180,00
16"	406,4 x 6,35	10	1219	1422	119,98
	406,4 x 7,92	20			149,03
	406,4 x 9,53	Std			178,60
	406,4 x 12,70	Xs			236,11

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CURVE SENZA SALDATURA

R=5D

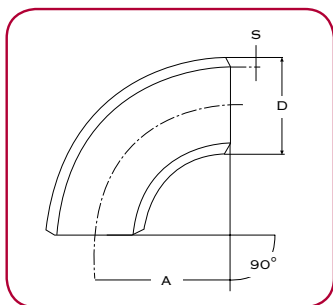
ASME B16.9

R=5D

SEAMLESS ELBOWS

ASME B16.9

CARBON STEEL



D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
2"	60,3 x 3,91	Std	254	284	2,17
	60,3 x 5,54	Xs			2,99
3"	88,9 x 3,96	20	381	426	4,96
	88,9 x 5,49	Std			6,76
	88,9 x 7,62	Xs			9,14
4"	114,3 x 4,37	20	508	565	9,45
	114,3 x 6,02	Std			12,83
	114,3 x 8,56	Xs			17,81
6"	168,3 x 4,78	20	762	846	23,07
	168,3 x 7,11	Std			33,83
	168,3 x 10,97	Xs			50,95
8"	219,1 x 6,35	20	1016	1126	53,17
	219,1 x 7,04	30			58,76
	219,1 x 8,18	Std			67,91
	219,1 x 10,31	60			84,72
	219,1 x 12,70	Xs			103,17
10"	273,0 x 6,35	20	1270	1407	83,30
	273,0 x 7,80	30			101,77
	273,0 x 9,27	Std			120,28
	273,0 x 12,70	Xs			162,64

D.E. Pollici Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	SCH	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
12"	323,9 x 6,35	20	1524	1688	117,04
	323,9 x 8,38	30			156,10
	323,9 x 9,53	Std			176,87
	323,9 x 10,31	40			190,87
	323,9 x 12,70	Xs			233,33
14"	355,6 x 6,35	10	1778	1956	152,75
	355,6 x 7,92	20			189,66
	355,6 x 9,53	Std			227,16
	355,6 x 11,13	40			264,07
	355,6 x 12,70	Xs			299,95
16"	406,4 x 6,35	10	2032	2235	199,96
	406,4 x 7,92	20			248,42
	406,4 x 9,53	Std			297,72
	406,4 x 12,70	Xs			393,58

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

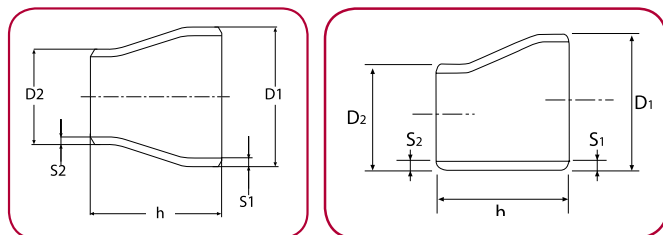


RIDUZIONI CONCENTRICHE ED ECCENTRICHE SENZA SALDATURA

ASME B16.9

SEAMLESS CONCENTRIC AND ECCENTRIC REDUCERS

ASME B16.9



CARBON STEEL

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	Sp X Sp. Mm Thick X Thick Mm	SCH	H	Peso Teorico Theoretical Weight Kg
1" x 3/4"	33,40 x 26,70	3,38 x 2,87	Std	51	0,14
	33,40 x 26,70	4,55 x 3,91	Xs		0,17
1 1/4" x 3/4"	42,60 x 26,70	3,56 x 2,87	Std		0,20
	42,60 x 26,70	4,85 x 3,91	Xs		0,23
1 1/4" x 1"	42,60 x 33,40	3,56 x 3,38	Std	64	0,20
	42,60 x 33,40	4,85 x 4,55	Xs		0,24
1 1/2" x 3/4"	48,30 x 26,70	3,68 x 2,87	Std		0,22
	48,30 x 26,70	5,08 x 3,91	Xs		0,30
1 1/2" x 1"	48,30 x 33,40	3,68 x 3,38	Std	76	0,24
	48,30 x 33,40	5,08 x 4,55	Xs		0,31
1 1/2" x 1 1/4"	48,30 x 42,40	3,68 x 3,56	Std		0,26
	48,30 x 42,40	5,08 x 4,85	Xs		0,33
2" x 1"	60,30 x 33,40	3,91 x 3,38	Std	89	0,37
	60,30 x 33,40	5,54 x 4,55	Xs		0,45
2" x 1 1/4"	60,30 x 42,40	3,91 x 3,56	Std		0,39
	60,30 x 42,40	5,54 x 4,85	Xs		0,53
2" x 1 1/2"	60,30 x 48,30	3,91 x 3,68	Std	102	0,41
	60,30 x 48,30	5,54 x 5,08	Xs		0,54
2 1/2" x 1 1/4"	73,10 x 42,40	5,16 x 3,56	Std		0,39
	73,10 x 42,40	7,01 x 4,85	Xs		0,53
2 1/2" x 1 1/2"	73,10 x 48,30	5,16 x 3,66	Std	127	0,68
	73,10 x 48,30	7,01 x 5,08	Xs		0,86
2 1/2" x 2"	73,10 x 60,30	5,16 x 3,91	Std		0,73
	73,10 x 60,30	7,01 x 5,54	Xs		0,94
3" x 1"	88,90 x 33,40	5,49 x 3,38	Std	140	0,86
	88,90 x 33,40	7,62 x 4,55	Xs		0,99
3" x 1 1/2"	88,90 x 48,30	5,49 x 3,68	Std		0,86
	88,90 x 48,30	7,62 x 5,08	Xs		0,99
3" x 2"	88,90 x 60,30	5,49 x 3,91	Std	152	0,91
	88,90 x 60,30	7,62 x 5,54	Xs		1,18

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	Sp X Sp. Mm Thick X Thick Mm	SCH	H	Peso Teorico Theoretical Weight Kg
3" x 2 1/2"	88,90 x 73,10	5,49 x 5,16	Std	89	0,98
	88,90 x 73,10	7,62 x 7,01	Xs		1,29
4" x 2"	114,30 x 60,30	6,02 x 3,91	Std	102	1,44
	114,30 x 60,30	8,56 x 5,54	Xs		1,78
4" x 2 1/2"	114,30 x 73,10	6,02 x 5,16	Std	127	1,62
	114,30 x 73,10	8,56 x 7,01	Xs		1,90
4" x 3"	114,30 x 88,90	6,02 x 5,49	Std	140	1,59
	114,30 x 88,90	8,56 x 7,62	Xs		2,13
5" x 3"	141,30 x 88,90	6,55 x 5,49	Std	152	2,60
	141,30 x 88,90	9,53 x 7,62	Xs		3,55
5" x 4"	141,30 x 114,30	6,55 x 6,02	Std	178	2,72
	141,30 x 114,30	9,53 x 8,56	Xs		3,78
6" x 3"	168,30 x 88,90	7,11 x 5,49	Std	102	3,63
	168,30 x 88,90	10,97 x 7,62	Xs		5,04
6" x 4"	168,30 x 114,30	7,11 x 6,02	Std	127	3,72
	168,30 x 114,30	10,97 x 8,56	Xs		5,45
6" x 5"	168,30 x 141,30	7,11 x 6,55	Std	140	3,93
	168,30 x 141,30	10,97 x 9,53	Xs		5,72
8" x 4"	219,10 x 114,30	8,18 x 6,02	Std	152	5,95
	219,10 x 114,30	12,70 x 8,56	Xs		8,44
8" x 5"	219,10 x 141,30	8,18 x 6,55	Std	178	4,08
	219,10 x 141,30	12,70 x 9,53	Xs		8,88
8" x 6"	219,10 x 168,30	8,18 x 7,11	Std	102	6,31
	219,10 x 168,30	12,70 x 10,97	Xs		9,26
10" x 5"	273,00 x 141,30	9,27 x 6,55	Std	127	9,90
	273,00 x 141,30	12,70 x 9,53	Xs		13,00
10" x 6"	273,00 x 168,30	9,27 x 7,11	Std	140	10,10
	273,00 x 168,30	12,70 x 12,97	Xs		13,50
10" x 8"	273,00 x 219,10	9,27 x 8,18	Std	152	10,50
	273,00 x 219,10	12,70 x 12,70	Xs		14,20

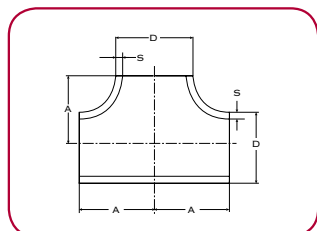
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	Sp X Sp. Mm Thck X Thck Mm	SCH	H	Peso Teorico Theoretical Weight Kg
12" x 6"	323,90 x 168,30	9,53 x 7,11	Std	203	14,10
	323,90 x 168,30	12,70 x 10,97	Xs		18,40
12" x 8"	323,90 x 219,10	9,53 x 8,18	Std		14,60
	323,90 x 219,10	12,70 x 12,70	Xs		17,00
12" x 10"	323,90 x 273,00	9,53 x 9,27	Std		15,20
	323,90 x 273,00	12,70 x 12,70	Xs		19,80
14" x 8"	355,60 x 219,10	9,53 x 8,18	Std	330	26,00
	355,60 x 219,10	12,70 x 12,70	Xs		34,90
14" x 10"	355,60 x 273,00	9,53 x 9,27	Std		27,40
	355,60 x 273,00	12,70 x 12,70	Xs		36,10
14" x 12"	355,60 x 323,90	9,53 x 9,53	Std		28,80
	355,60 x 323,90	12,70 x 12,70	Xs		37,70
16" x 10"	406,40 x 273,00	9,53 x 9,27	Std	356	33,10
	406,40 x 273,00	12,70 x 12,70	Xs		43,70
16" x 12"	406,40 x 323,90	9,53 x 9,53	Std		34,30
	406,40 x 323,90	12,70 x 12,70	Xs		45,00
16" x 14"	406,40 x 355,60	9,53 x 9,53	Std		35,20
	406,40 x 355,60	12,70 x 12,70	Xs		46,30
18" x 12"	457,00 x 323,90	9,53 x 9,53	Std	381	40,50
	457,00 x 323,90	12,70 x 12,70	Xs		53,60
18" x 14"	457,00 x 355,60	9,53 x 9,53	Std		41,30
	457,00 x 355,60	12,70 x 12,70	Xs		54,50
18" x 16"	457,00 x 406,40	9,53 x 9,53	Std		42,70
	457,00 x 406,40	12,70 x 12,70	Xs		55,80

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thickn Mm	Sp X Sp. Mm Thck X Thck Mm	SCH	H	Peso Teorico Theoretical Weight Kg
20" x 12"	508,00 x 323,90	9,53 x 9,53	Std	508	60,80
	508,00 x 323,90	12,70 x 12,70	Xs		79,90
20" x 14"	508,00 x 355,60	9,53 x 9,53	Std		61,30
	508,00 x 355,60	12,70 x 12,70	Xs		81,30
20" x 16"	508,00 x 406,40	9,53 x 9,53	Std		62,60
	508,00 x 406,40	12,70 x 12,70	Xs		82,60
20" x 18"	508,00 x 457,00	9,53 x 9,53	Std	508	64,50
	508,00 x 457,00	12,70 x 12,70	Xs		84,40
24" x 14"	609,60 x 355,60	9,53 x 9,53	Std		72,60
	609,60 x 355,60	12,70 x 12,70	Xs		95,80
24" x 16"	609,60 x 406,40	9,53 x 9,53	Std		72,60
	609,60 x 406,40	12,70 x 12,70	Xs		95,80
24" x 18"	609,60 x 457,00	9,53 x 9,53	Std	508	74,00
	609,60 x 457,00	12,70 x 12,70	Xs		97,60
24" x 20"	609,60 x 508,00	9,53 x 9,53	Std		75,80
	609,60 x 508,00	12,70 x 12,70	Xs		99,90



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TEE UGUALI SENZA SALDATURA

ASME B16.9

SEAMLESS EQUAL TEES

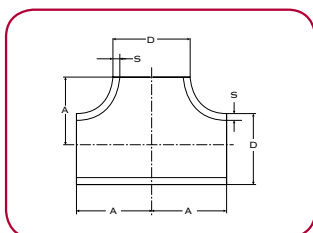
ASME B16.9

CARBON STEEL

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	A	A+A	PESO TEORICO THEORETICAL WEIGHT KG
1/2"	21,3 x 2,77	Std	25	50	0,12
	21,3 x 3,73	Xs			0,13
3/4"	26,7 x 2,87	Std	29	58	0,16
	26,7 x 3,91	Xs			0,20
1"	33,4 x 3,38	Std	38	76	0,30
	33,4 x 4,55	Xs			0,38
	33,4 x 6,35	160			0,42
1 1/4"	42,4 x 3,56	Std	48	96	0,54
	42,4 x 4,58	Xs			0,71
	42,4 x 6,35	160			0,90
1 1/2"	48,3 x 3,68	Std	57	114	0,75
	48,3 x 5,08	Xs			1,02
	48,3 x 7,14	160			1,61
2"	60,3 x 3,91	Std	76	106	0,65
	60,3 x 5,54	Xs			0,90
	60,3 x 8,71	160			1,33
	60,3 x 11,07	XXs			1,61
2 1/2"	73,1 x 5,16	Std	76	152	2,07
	73,1 x 7,01	Xs			2,78
	73,1 x 9,53	160			3,63
3"	88,9 x 5,49	Std	86	172	3,05
	88,9 x 7,62	Xs			3,75
	88,9 x 11,13	160			6,19
4"	114,3 x 6,02	Std	105	210	5,02
	114,3 x 8,56	Xs			6,67
	114,3 x 11,13	120			8,10
	114,3 x 13,49	160			11,80
5"	141,3 x 6,55	Std	124	248	7,72
	141,3 x 9,53	Xs			10,51
	141,3 x 12,70	120			15,75
	141,3 x 15,88	160			19,90
6"	168,3 x 7,11	Std	143	186	11,51
	168,3 x 10,97	Xs			17,21
	168,3 x 14,27	120			21,60
	168,3 x 18,24	160			31,10

D.E. POLLICI D.E. INCHES	Ø EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	A	A+A	PESO TEORICO THEORETICAL WEIGHT KG
8"	219,1 x 6,35	20	178	356	20,70
	219,1 x 7,04	30			22,14
	219,1 x 8,18	Std			29,45
	219,1 x 12,70	Xs			29,48
	219,1 x 18,24	120			44,55
	219,1 x 23,01	160			63,50
10"	273,0 x 6,35	20	216	432	31,23
	273,0 x 7,80	30			36,00
	273,0 x 9,27	Std			33,86
	273,0 x 12,70	Xs			44,15
	273,0 x 15,06	80			60,75
	273,0 x 21,41	120			83,70
12"	273,0 x 28,58	160	254	508	118,00
	323,9 x 6,35	20			39,06
	323,9 x 8,38	30			50,94
	323,9 x 9,53	Std			55,00
	323,9 x 10,31	40			63,45
	323,9 x 12,70	Xs			78,70
	323,9 x 14,27	60			85,50
	323,9 x 17,45	80			103,50
	323,9 x 22,23	120			135,00
	323,9 x 33,32	160			155,00
14"	355,6 x 7,92	20	279	558	75,60
	355,6 x 9,53	Std			72,60
	355,6 x 12,70	Xs			96,70
16"	406,4 x 7,92	20	305	610	90,00
	406,4 x 9,53	Std			90,30
	406,4 x 12,70	Xs			120,00
18"	457,4 x 9,53	Std	343	686	131,00
	457,4 x 12,70	Xs			139,00
20"	508,0 x 9,53	Std	381	762	151,20
	508,0 x 12,70	Xs			220,50
24"	609,6 x 9,53	Std	432	864	216,00
	609,6 x 12,70	Xs			315,00

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TEE RIDOTTI SENZA SALDATURA

ASME B16.9

SEAMLESS REDUCING TEES

ASME B16.9

CARBON STEEL

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thckn Mm	Sp X Sp Mm Thck X Thck Mm	SCH	A	A+A	Peso Teorico Theoretical Weight Kg
3/4" x 1/2"	26,70 x 21,30	2,87 x 2,77	Std	29	29	0,16
	26,70 x 21,30	3,91 x 3,73	Xs			0,20
1" x 1/2"	33,40 x 21,30	3,38 x 2,77	Std	38	38	0,30
	33,40 x 21,30	4,55 x 3,73	Xs			0,37
1" x 3/4"	33,40 x 26,70	3,38 x 2,87	Std	38	38	0,30
	33,40 x 26,70	4,55 x 3,91	Xs			0,38
1 1/4" x 1/2"	42,40 x 21,30	3,56 x 2,77	Std	48	48	0,54
	42,40 x 21,30	4,85 x 3,73	Xs			0,68
1 1/4" x 3/4"	42,60 x 26,70	3,56 x 2,87	Std	48	48	0,54
	42,60 x 26,70	4,85 x 3,91	Xs			0,68
1 1/4" x 1"	42,60 x 33,410	3,56 x 3,38	Std	48	48	0,54
	42,60 x 33,410	4,85 x 4,55	Xs			0,69
1 1/2" x 3/4"	48,30 x 26,70	3,68 x 2,87	Std	57	57	0,77
	48,30 x 26,70	5,08 x 3,91	Xs			0,98
1 1/2" x 1"	48,30 x 33,40	3,68 x 3,38	Std	57	57	0,77
	48,30 x 33,40	5,08 x 4,55	Xs			1,02
1 1/2" x 1 1/4"	48,30 x 42,40	3,68 x 3,56	Std	57	57	0,77
	48,30 x 42,40	5,08 x 4,85	Xs			1,02
2" x 1"	60,30 x 33,40	3,91 x 3,38	Std	64	51	0,98
	60,30 x 33,40	5,54 x 4,55	Xs			1,32
2" x 1 1/4"	60,30 x 42,40	3,91 x 3,56	Std	64	57	1,04
	60,30 x 42,40	5,54 x 4,85	Xs			1,44
2" x 1 1/2"	60,30 x 48,30	3,91 x 3,68	Std	64	60	1,06
	60,30 x 48,30	5,54 x 5,08	Xs			1,44
2 1/2" x 1 1/4"	73,10 x 42,40	5,16 x 3,56	Std	76	64	1,72
	73,10 x 42,40	7,01 x 4,85	Xs			2,14
2 1/2" x 1 1/2"	73,10 x 48,30	5,16 x 3,68	Std	76	67	1,72
	73,10 x 48,30	7,01 x 5,08	Xs			2,14
2 1/2" x 2"	73,10 x 60,30	5,16 x 3,91	Std	76	70	1,72
	73,10 x 60,30	7,01 x 5,54	Xs			2,24

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thckn Mm	Sp X Sp Mm Thck X Thck Mm	SCH	A	A+A	Peso Teorico Theoretical Weight Kg
3" x 1"	88,90 x 33,40	5,49 x 3,38	Std	70	70	2,45
	88,90 x 33,40	7,62 x 4,55	Xs			2,80
3" x 1 1/4"	88,90 x 42,40	5,49 x 3,56	Std	70	70	2,45
	88,90 x 42,40	7,62 x 4,85	Xs			2,80
3" x 1 1/2"	88,90 x 48,30	5,49 x 3,68	Std	86	73	2,48
	88,90 x 48,30	7,62 x 5,08	Xs			3,05
3" x 2"	88,90 x 60,30	5,49 x 3,91	Std	86	76	2,48
	88,90 x 60,30	7,62 x 5,54	Xs			3,09
3" x 2 1/2"	88,90 x 73,10	5,49 x 5,16	Std	86	83	2,91
	88,90 x 73,10	7,62 x 7,01	Xs			3,50
4" x 2"	114,30 x 60,30	6,02x x60,30	Std	105	89	4,12
	114,30 x 60,30	8,56 x 4,54	Xs			5,08
4" x 2 1/2"	114,30 x 73,10	6,02 x 5,16	Std	105	95	4,48
	114,30 x 73,10	8,56 x 7,01	Xs			5,96
4" x 3"	114,30 x 88,90	6,02 x 5,49	Std	105	98	4,56
	114,30 x 88,90	8,56 x 7,62	Xs			6,13
5" x 3"	141,30 x 88,90	6,55 x 5,49	Std	124	111	7,60
	141,30 x 88,90	9,53 x 7,62	Xs			8,85
5" x 4"	141,30 x 114,30	6,55 x 6,02	Std	124	117	7,10
	141,30 x 114,30	9,53 x 8,56	Xs			9,90
6" x 3"	168,30 x 88,90	7,11 x 5,49	Std	143	124	10,22
	168,30 x 88,90	10,97 x 7,62	Xs			13,33
6" x 4"	168,30 x 114,30	7,11 x 6,02	Std	143	130	10,25
	168,30 x 114,30	10,97 x 8,56	Xs			14,26
6" x 5"	168,30 x 141,30	7,11 x 6,55	Std	143	137	11,13
	168,30 x 141,30	10,97 x 9,53	Xs			15,04
8" x 4"	219,10 x 114,30	8,18 x 6,02	Std	178	156	16,77
	219,10 x 114,30	12,70 x 8,56	Xs			24,59
8" x 5"	219,10 x 141,30	8,18 x 6,55	Std	178	162	17,36
	219,10 x 141,30	12,70 x 9,53	Xs			24,59
8" x 6"	219,10 x 168,00	8,18 x 7,11	Std	178	168	17,96
	219,10 x 168,00	12,70 x 10,97	Xs			28,27

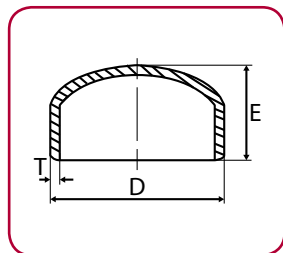
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D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thckn Mm	Sp X Sp Mm Thck X Thck Mm	SCH	C	M	Peso Teorico Theoretical Weight Kg
10" x 4"	273,00 x 114,30	9,27 x 6,02	Std	216	184	26,93
	273,00 x 114,30	12,70 x 8,56	Xs			35,11
10" x 6"	273,00 x 168,00	9,27 x 7,11	Std		194	26,93
	273,00 x 168,00	12,70 x 10,97	Xs			35,11
10" x 8"	273,00 x 219,10	9,27 x 8,18	Std		203	28,35
	273,00 x 219,10	12,70 x 12,70	Xs			36,97
12" x 6"	323,90 x 168,30	9,53 x 7,11	Std	254	219	40,50
	323,90 x 168,30	12,70 x 10,97	Xs			75,20
12" x 8"	323,90 x 219,10	7,53 x 8,18	Std		229	40,50
	323,90 x 219,10	12,70 x 12,70	Xs			75,20
12" x 10"	323,90 x 273,00	9,53 x 9,27	Std		241	43,00
	323,90 x 273,00	12,70 x 12,70	Xs			75,20
14" x 10"	355,60 x 273,00	9,53 x 9,27	Std	279	257	87,84
	355,60 x 273,00	12,70 x 12,70	Xs			98,60
14" x 12"	355,60 x 323,90	9,53 x 9,53	Std		270	91,80
	355,60 x 323,90	12,70 x 12,70	Xs			103,50
16" x 10"	406,40 x 273,00	9,53 x 9,27	Std	305	283	95,85
	406,40 x 273,00	12,70 x 12,70	Xs			144,00
16" x 12"	406,40 x 323,90	9,53 x 9,53	Std		295	99,00
	406,40 x 323,90	12,70 x 12,70	Xs			147,60
16" x 14"	406,40 x 355,60	9,53 x 9,53	Std		305	99,00
	406,40 x 355,60	12,70 x 12,70	Xs			150,30

D.E. Pollici D.E. Inches	Ø Est. Mm X Spess. Mm Outs. Diam. Mm X Thckn Mm	Sp X Sp Mm Thck X Thck Mm	SCH	C	M	Peso Teorico Theoretical Weight Kg
18" x 10"	457,00 x 273,00	9,53 x 9,27	Std	343	308	116,10
	457,00 x 273,00	12,70 x 12,70	Xs			138,60
18" x 12"	457,00 x 323,90	9,53 x 9,53	Std		321	121,50
	457,00 x 323,90	12,70 x 12,70	Xs			147,60
18" x 14"	457,00 x 355,60	9,53 x 9,53	Std		330	121,50
	457,00 x 355,60	12,70 x 12,70	Xs			171,00
18" x 16"	457,00 x 406,40	9,53 x 9,53	Std		330	121,50
	457,00 x 406,40	12,70 x 12,70	Xs			171,00
20" x 10"	508,00 x 273,00	9,53 x 9,27	Std	381	333	147,15
	508,00 x 273,00	12,70 x 12,70	Xs			192,60
20" x 12"	508,00 x 323,90	9,53 x 9,53	Std		346	147,15
	508,00 x 323,90	12,70 x 12,70	Xs			192,60
20" x 14"	508,00 x 355,60	9,53 x 9,53	Std		356	147,15
	508,00 x 355,60	12,70 x 12,70	Xs			192,60
20" x 16"	508,00 x 406,40	9,53 x 9,53	Std		356	151,20
	508,00 x 406,40	12,70 x 12,70	Xs			196,20
20" x 18"	508,00 x 457,00	9,53 x 9,53	Std		368	151,20
	508,00 x 457,00	12,70 x 12,70	Xs			196,20
24" x 14"	609,60 x 355,60	9,53 x 9,53	Std	432	397	155,25
	609,60 x 355,60	12,70 x 12,70	Xs			220,50
24" x 16"	609,60 x 406,40	9,53 x 9,53	Std		406	188,10
	609,60 x 406,40	12,70 x 12,70	Xs			234,00
24" x 18"	609,60 x 457,00	9,53 x 9,53	Std		419	188,10
	609,60 x 457,00	12,70 x 12,70	Xs			234,00
24" x 20"	609,60 x 508,00	9,53 x 9,53	Std		432	198,00
	609,60 x 508,00	12,70 x 12,70	Xs			252,00



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FONDI

ASME B16.9

CAPS

ASME B16.9

CARBON STEEL

D.E. POLLICI D.E. INCHES	O EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	E	PESO TEORICO THEORETICAL WEIGHT KG
1"	33,4 x 3,38	Std	38	0,10
	33,4 x 4,55	Xs		0,13
	33,4 x 6,35	160		0,15
1 1/4"	42,4 x 3,56	Std	38	0,14
	42,4 x 4,85	Xs		0,19
	42,4 x 6,35	160		0,23
1 1/2"	48,3 x 3,68	Std	38	0,20
	48,3 x 5,08	Xs		0,23
	48,3 x 7,14	160		0,30
2"	60,3 x 3,91	Std	38	0,25
	60,3 x 5,54	Xs		0,30
	60,3 x 8,71	160		0,55
2 1/2"	73,1 x 5,16	Std	38	0,35
	73,1 x 7,01	Xs		0,45
	73,1 x 9,53	160		0,90
3"	88,9 x 5,49	Std	51	0,70
	88,9 x 7,62	Xs		0,85
	88,9 x 11,13	160		1,45
4"	114,3 x 6,02	Std	64	1,10
	114,3 x 8,56	Xs		1,60
	114,3 x 11,13	120		2,50
	114,3 x 13,49	160		2,75
5"	141,3 x 6,55	Std	76	2,00
	141,3 x 9,53	Xs		2,70
	141,3 x 12,70	120		4,00
	141,3 x 15,88	160		5,00
6"	168,3 x 4,78	20	89	2,01
	168,3 x 7,11	Std		3,00
	168,3 x 10,97	Xs		4,40
	168,3 x 14,27	120		6,00
	168,3 x 18,24	160		7,50
8"	219,1 x 6,35	20	102	4,50
	219,1 x 7,04	30		5,00
	219,1 x 8,18	Std		5,50

D.E. POLLICI D.E. INCHES	O EST. MM X SPESS. MM OUTS. DIAM. MM X THICKN MM	SCH	E	PESO TEORICO THEORETICAL WEIGHT KG
8"	219,1 x 10,31	60	102	7,00
	219,1 x 12,70	Xs		8,35
	219,1 x 18,24	120		12,27
	219,1 x 23,01	160		19,49
10"	273,0 x 6,35	20	127	6,00
	273,0 x 7,80	30		8,00
	273,0 x 9,27	Std		9,00
	273,0 x 12,70	Xs		13,60
	273,0 x 15,06	80		16,25
	273,0 x 21,41	120		24,74
12"	273,0 x 28,58	160	152	32,98
	323,9 x 6,35	20		10,00
	323,9 x 8,38	30		13,00
	323,9 x 9,53	Std		15,00
	323,9 x 10,31	40		19,00
	323,9 x 12,70	Xs		22,50
	323,9 x 14,27	60		25,50
	323,9 x 17,45	80		29,50
	323,9 x 25,40	120		41,00
14"	323,9 x 33,32	160	165	53,77
	355,6 x 7,92	20		14,00
	355,6 x 9,53	Std		16,00
	355,6 x 12,70	Xs		27,00
16"	406,4 x 7,92	20	178	18,00
	406,4 x 9,53	Std		21,00
	406,4 x 12,70	Xs		31,50
18"	457,0 x 7,92	20	203	22,00
	457,0 x 9,53	Std		26,00
	457,0 x 12,70	Xs		36,00
20"	508,0 x 9,53	Std	229	32,00
	508,0 x 12,70	Xs		42,00
24"	609,6 x 9,53	Std	267	46,00
	609,6 x 12,70	Xs		60,00

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

EN 10253



Stainless steel and carbon steel



RACCORDI A SALDARE DI TESTA | BUTT WELDING FITTINGS

INFORMAZIONI GENERALI - GENERAL INFORMATION

I RACCORDI A SALDARE DI TESTA DELLA SOCIETÀ SENECA SONO FORNITI IN ACCORDO ALLE SEGUENTI NORME:
SENECA'S BUTT WELDING FITTINGS ARE PROVIDED IN ACCORDING TO THE FOLLOWINGS STANDARDS:

Norma del raccordo Fitting standard	Descrizione Description	Norma del tubo Pipe standard		Grado di acciaio Steel grade	AISI	EN	Tipologia di raccordi Fittings types	Note Notes
		Senza saldature Seamless	Saldato Welded					
EN-10253-3	Accessori per tubi a saldare di testa. Austenitici e austenitico-ferritici (duplex) acciai inossidabili senza requisiti specifici di controllo. Butt-welding pipe fittings. Wrought austenitic and austenitic-ferritic (duplex) stainless steels without specific inspection requirements.	EN 10216-5	EN 10217-7	X5CrNi18-10 X2CrNi18-9 X5CrNiMo17-12-2 X2CrNiMo17-12-2	304 304L 316 316L	1.4301 1.4307 1.4401 1.4404	Curve / Elbows (3D, 5D) Riduzioni concentriche ed eccentriche / Concentric and eccentric reducers Riduzioni concentriche ed eccentriche "diritte" / Concentric and eccentric reducers "straight" Tee con derivazione uguale e ridotta / Equal and reducing tee Tee sboccati e con prolunga saldata / Pulled tee and Branch welded tee Fondi / Caps	Non conforme alla PED Not according to PED
EN-10253-4	Accessori per tubi a saldare di testa. Austenitici e austenitico-ferritici (duplex) acciai inossidabili con requisiti specifici di controllo per impieghi a pressione. Butt-welding pipe fittings. Wrought austenitic and austenitic-ferritic (duplex) stainless steels with specific inspection requirements.	EN 10216-5	EN 10217-7	X5CrNi18-10 X2CrNi18-9 X5CrNiMo17-12-2 X2CrNiMo17-12-2	304 304L 316 316L	1.4301 1.4307 1.4401 1.4404	Curve / Elbows (3D, 5D) Riduzioni concentriche ed eccentriche / Concentric and eccentric reducers Riduzioni concentriche ed eccentriche "diritte" / Concentric and eccentric reducers "straight" Tee con derivazione uguale e ridotta / Equal and reducing tee Tee sboccati e con prolunga saldata / Pulled tee and Branch welded tee Fondi / Caps	Conforme alla PED According to PED In funzione della resistenza alla pressione i raccordi sono: In function of the resistance to the pressure the fittings are: Raccordi tipo "A" * / Fittings type "A" * Raccordi tipo "B" ** / Fittings type "B" **
ISO 5251	Accessori a saldare di testa in acciaio inossidabile. Butt-welding pipe fittings stainless steel.	EN 10216-5	EN 10217-7	X5CrNi18-10 X2CrNi18-9 X5CrNiMo17-12-2 X2CrNiMo17-12-2	304 304L 316 316L	1.4301 1.4307 1.4401 1.4404	Curve / Elbows (3D, 5D) Riduzioni concentriche ed eccentriche / Concentric and eccentric reducers Tee con derivazione uguale e ridotta / Equal and reducing tee Fondi / Caps	
EN 10253-1	Raccordi in acciaio non legato lavorato plasticamente per impieghi generali e senza requisiti specifici di controllo (certificato EN 10204/2.2) non in accordo PED Butt-welding pipe fittings wrought carbon steel for general use and without specific inspection requirements not according to PED	EN 10216-1 (P235TR1, P26TR1)	EN 10217-1 (P235TR1, P26TR1)	S235, S265	---	---	Curve (2D, 3D, 5D) Riduzioni concentriche Forma 1 Riduzioni concentriche ed eccentriche Forma 2 Tee con derivazione uguale e ridotta Fondi bombati Elbows (2D, 3D, 5D) Concentric reducers (form 1) Concentric and eccentric reducers (form 2) Equaland reducing tee Caps	---
EN 10253-2	Raccordi in acciaio non legato e legato con requisiti specifici di controllo per impieghi a pressione (certificato EN 10204/2.2) in accordo a PED Butt-welding pipe fittings non alloy and ferritic alloy steels with specific inspection requirements, according to PED	EN 10216-1	EN 10217-1	Acciaio al carbonio a temperatura ambiente P235TR2, P265TR2	---	---	Curve (2D, 3D, 5D) Riduzioni concentriche Forma 1 Riduzioni concentriche ed eccentriche Forma 2 Tee con derivazione uguale e ridotta Fondi bombati Elbows (2D, 3D, 5D) Concentric reducers (form 1) Concentric and eccentric reducers (form 2) Equaland reducing tee Caps	---
		EN 10216-2 (TC1 e TC2)	EN 10217-2 (TC1 e TC2)	Acciai al carbonio per alta temperatura P235GH, P265GH				
		EN 10216-2 TC2	EN 10217-2 TC2	Acciai legati per alta temperatura 16Mo3, 13CrMo4-5, 100LvMo5-5 X10CrMoVnB9-1				
		EN 10216-3 / 4 (TC1 e TC2)	EN 10217-3 / 4 (TC1 e TC2)	Acciaio al carbonio per basse temperature P265NL, P355NL				
		EN 10208-2		Acciai al carbonio per trasporto di fluidi combustibili (line pipe) L290NB, L360NB, L415QB, L450QB				

LE TABELLE RIPORTATE IN SEGUITO PERMETTONO UN CONFRONTO TRA I DIFFERENTI GRADI DI ACCIAIO SECONDO LA COMPOSIZIONE CHIMICA E LE PROPRIETÀ MECCANICHE:
TABLES SHOWN BELOW ALLOW A COMPARISON BETWEEN THE DIFFERENT STEEL GRADES ACCORDING TO THE CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES:

Grado acciaio / Steel grade	EN	C	Si	Mn	P	S	N	Cr	Cu	Mo	Nb	Ni	Ti	Altri Others
Nome / Names		max. %	max. %	max. %	max. %	max. %	max. %	max. %	max. %	max. %	max. %	max. %	max. %	%
X2CrNi18-9	1.4307	0,030	1,00	2,00	0,045	0,015	≤ 0,11	17,50-19,50	-	-	-	8,00-10,00	-	-
X5CrNi18-10	1.4301	0,07	1,00	2,00	0,045	0,015	≤ 0,11	17,00-19,50	-	-	-	8,00-10,50	-	-
X2CrNiMo17-12-2	1.4404	0,030	1,00	2,00	0,045	0,015	≤ 0,11	16,50-18,50	-	2,00-2,50	-	10,00-13,00	-	-
X5CrNiMo17-12-2	1.4401	0,07	1,00	2,00	0,045	0,015	≤ 0,11	16,50-18,50	-	2,00-2,50	-	10,00-13,00	-	-
P235TR2	1.0255	0,16	0,35	1,20	0,025	0,020	-	0,30	0,30	0,08	0,01	0,30	0,04	Cr+Cu+Mo+Ni≤0,70
P265TR2	1.0259	0,20	0,40	1,40	0,025	0,020	-	0,30	0,30	0,08	0,01	0,30	0,04	<<
P235GH	1.0345	0,16	0,35	1,20	0,025	0,020	-	0,30	0,30	0,08	0,01	0,30	0,04	<<
P265GH	1.0425	0,20	0,40	1,40	0,025	0,020	-	0,30	0,30	0,08	0,01	0,30	0,04	<<
16Mn3	1.5415	0,12 - 0,20	0,35	0,40-0,90	0,025	0,020	-	0,30	0,30	0,25-0,35	-	0,30	-	-
10CrMo5-5	1.7338	0,15	0,50 - 1,00	0,30-0,60	0,025	0,020	-	1,00-1,50	0,30	0,45-0,65	-	0,30	-	-
13CrMo4-5	1.7335	0,10 - 0,17	0,35	0,40-0,70	0,025	0,020	-	0,70-1,15	0,30	0,40-0,60	-	0,30	-	-
X10CrMoNb9-1	1.4903	0,08 - 0,12	0,20 - 0,50	0,30-0,60	0,020	0,020	-	8,00-9,50	0,30	0,85-1,05	0,06-0,10	0,40	0,04	N: 0,030-0,070
P355NL1	1.0566	0,18	0,50	0,90-1,70	0,025	0,020	-	0,30	0,30	0,08	0,05	0,50	0,04	N≤0,02 Nb+Ti+V≤0,12
P265NL	1.0453	0,20	0,40	0,60-1,40	0,025	0,020	-	0,30	0,30	0,08	0,10	0,30	0,04	-
L290NB	1.0484	0,17	0,40	1,20	0,025	0,020	-	0,30	0,25	0,10	0,05	0,30	0,04	N≤0,012 CEV≤0,42
L360NB	1.0582	0,20	0,45	1,60	0,025	0,020	-	0,30	0,25	0,10	0,05	0,30	0,04	N≤0,012 V+Nb+Ti≤0,15 CEV ≤ 0,45
L415QB	1.8947	0,16	0,45	1,60	0,025	0,020	-	0,30	0,25	0,10	0,05	0,30	0,04	N≤0,012 V+Nb+Ti≤0,15 CEV ≤ 0,43
L450Q8	1.8952	0,16	0,45	1,60	0,025	0,020	-	0,30	0,25	0,10	0,05	0,30	0,06	N≤0,012 V+Nb+Ti≤0,15 CEV ≤ 0,45

COMPOSIZIONE CHIMICA

Tipo di acciaio	C	Si	Mn	S	P
max. %	max. %	max. %	max. %	max. %	max. %
S 265	0,20	0,40	1,40	0,025	0,030
S 235	0,16	0,35	1,2	0,025	0,030

Nota1 Gli elementi che non figurano nel presente prospetto non devono essere aggiunti intenzionalmente all'acciaio senza il consenso del committente, fatta eccezione per gli elementi utilizzati per la dissossidazione dell'acciaio. Possono tuttavia essere tollerati elementi residui a condizione che le caratteristiche meccaniche e l'utilizzabilità del prodotto non vengano influenzati sfavorevolmente. Nota 2 Vedere appendice A per i particolari relativi al tipo di acciaio alternativo S265

Note 1 The elements that don't show up in the present prospectus don't have to be intentionally added to the steel without the consent of the buyer, made exception for the elements used for the deoxidation of the steel. They are able nevertheless to be born elements condition residues that the mechanical characteristics and the usability of the product is not unfavorably influenced. Note 2 To see appendix A for the particular ones related to the type of alternative steel S265





Grado acciaio / Steel grade		Durezza Hardness HB max.	Snervamento Yield point		Rottura / Tensile R _m MPa	Allungamento / Elongation A % min.		Resistenza / Impact test		
Nome / Names	EN		R _{p0.2} MPa min.	R _{p1.0} MPa min.		at RT		at -196°C		
						Longitudinal l	Trasverse t	Longitudinal l	Trasverse t	t
X2CrNi18-9	1.4307	200	180	215	470-670	40	35	100	60	60
X5CrNi18-10	1.4301	200	195	230	500-700	40	35	100	60	60
X2CrNiMo17-12-2	1.4404	200	190	225	490-690	40	35	100	60	60
X5CrNiMo17-12-2	1.4401	200	200	240	510-710	40	35	100	60	60

MECHANICAL PROPERTIES

Steel grade		Upper yield strength or proof strength R_{eH} or $R_{p0.2}$ min for wall thicknesses T in mm N/mm ²				Tensile strength R_m for wall thicknesses T in mm N/mm ²			Elongation A min. %	
Name	Number	T≤16	16<T≤40	40<T≤60	60<T≤100	T≤16	16<T≤60	60<T≤100	Longitudinal	Transverse
P235TR2	1,0255	235	225	215	-	360-500	360-500	-	25	23
P265TR2	1,0259	265	255	245	-	410-570	410-570	-	21	19
P235GH	0,0345	235	225	215	-	360-500	360-500	-	25	23
P265GH	1,0425	265	255	245	-	410-570	410-570	-	23	21
16Mo3	1,5415	280	270	260	-	450-600	450-600	-	22	20
10CrMo5-5	1,7338	275	275	265	-	410-560	410-560	-	22	20
13CrMo4-5	1,7335	290	290	280	-	440-590	440-590	-	22	20
X10CrMoV Nb9-1	1,4903	450	450	450	450	630-830	630-830	630-830	19	17
P355NL1	1,0566	355	345	325	305	490-650	490-630	450-590	22	20
P265NL	1,0453	265	265 ^b	-	-	410-570	410-570	-	24	22
L290NB	1,0484	290-440	290-440	-	-	≥415	-	-	23	21
L360NB	1,0582	360-510	360-510	-	-	≥460	-	-	22	20
L415QB	1,8947	415-565	415-565	-	-	≥520	≥520	-	20	18
L450QB	1,8952	450-570	450-570	-	-	≥535	≥535	-	20	18

^a For wall thicknesses equal to or smaller than 10 mm.

^b For wall thicknesses equal to or smaller than 25 mm.

LE CARATTERISTICHE MECCANICHE (A TEMPERATURA AMBIENTE) DEVONO ESSERE CONFORMI AI REQUISITI INDICATI NEL PROSPETTO:

THE MECHANICAL CHARACTERISTICS (TO TEMPERATURE ENVIRONMENT) THEY HAVE TO BE CONFORMING TO THE SUITABLE REQUISITE IN THE PROSPECTUS:

Tipo di acciaio	R_{eH} min N/mm ²	R_m N/mm ²	A min. %	HB max.
S265	265	410-570	21	180
S235	235	360-500	25	170

MINIMUM PROOF STRENGTH $R_{p0.2}$ AT ELEVATED TEMPERATURE

Grade	Minimum proof strength $R_{p0.2}$ N/mm ² at temperature of (°C)										
	100	150	200	250	300	350	400	450	500	550	600
16Mo3	243	237	224	205	173	159	156	150	146	-	-
10CrMo5-5	240	228	219	208	165	156	148	144	143	-	-
13CrMo4-5	2W64	253	245	236	192	182	174	168	166	-	-
X10CrMoV Nb9-1	410	395	380	370	360	350	340	320	300	270	215

MINIMUM TENSILE STRENGTH VALUES AT TEMPERATURE FOR GRADE P355NH



Temperature in °C	Rm for wall thickness T in mm			
	T ≤ 30	30<T≤50	50<T≤80	80<T≤100
100	440	420	400	390
150	430	410	390	380
200	410	390	370	360
250	410	390	370	360
300	410	390	370	360
350	400	380	360	350
400	390	370	350	340

LE TOLLERANZE, COME DA PAR 11.2 EN 10253-4 E EN 10253-2, SONO RIEPILOGATE NELLA SEGUENTE TABELLA:
TOLERANCES, AS EXPLAINED IN PAR 11.2 EN 10253-4 E EN 10253-2, ARE SUMMARIZED IN THE FOLLOWING TABLE:

Diametro esterno <i>Outside diameter</i> D (mm)	Diametro interno <i>Inside diameter</i>		Ovalità (2) <i>Out of round</i>		Spessore (3) <i>Thickness</i>	<i>F-G-H-L</i> (mm)	<i>B</i> (mm)	<i>C</i> (mm)	<i>K</i> (mm)	
	Alle estremità <i>At the ends</i>	Sul corpo <i>On the body</i>	Alle estremità <i>At the ends</i>	Sul corpo <i>On the body</i>	Alle estremità <i>At the ends</i>					
<=114,3	± 1% min ± 0,5 mm (classe D2)	Almeno 80% del diametro interno alle estremità <i>At least 80% of the internal diameter at the ends</i>	Inclusa nella tolleranza del diametro <i>Included in the tolerance of the diameter</i>	Max 4%	-12,5% +15%	±2mm	±7mm	±7mm	±4mm	
>=139,7 <=219,1						±2mm	±7mm	±7mm	±7mm	
273						±5mm	±7mm	±10mm	±7mm	
>=323,9 <=406,4						±5mm	±10mm	±10mm	±7mm	
>=457 <=610						±5mm	±10mm	±10mm	±7mm	
>=660 <=762			Max 2%		Senza saldatura <i>Seamless</i> -0,35 mm +15%	±5mm	±10mm	±10mm	±7mm	
>762						±10mm	±10mm	±10mm	±10mm	

(1) Le quote F-G-H-L-B-C-K sono riferite alle figure 1-2-3-4-5-6-7-8-9-10-11-12 della EN 10253-4.

(2) L'ovalità deve essere così calcolata $Ov=100(D_{max}-D_{min})/D$ in % dove:

D_{max} = diametro massimo misurato sulla sezione in mm

D_{min} = diametro minimo misurato sulla sezione in mm

D = diametro nominale della sezione in mm

(3) La tolleranza minima si applica anche sul corpo del raccordo

(1) Dimensions are F-G-H-L-B-C-K are referring to the figures 1-2-3-4-5-6-7-8-9-10-11-12 of EN 10253-4.

(2) The out of roundness must be so calculate: $Ov=100(D_{max}-D_{min})/D$ in % where:

D_{max} = maximum diameter measured on the section in mm

D_{min} = minimum diameter measured on the section in mm

D = nominal diameter of section in mm

(3) Minimum tolerance is applied also on the body of the fitting.

CURVE SALDATE 3D 90°

RAGGIO R=1,5D
(45° SU RICHIESTA)

CARATTERISTICHE TECNICHE

Norme dimensionali: EN 10253-3 - EN 10253-4

Ricavate da tubo saldato o lamiera

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/3.1

WELDED ELBOWS 3D 90°

RADIUS R=1,5D
(45° ON REQUEST)

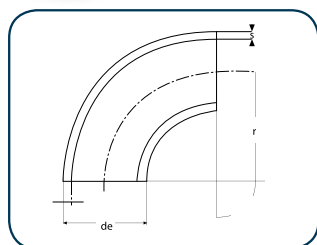
TECHNICAL INFORMATION

Dimensional standard: EN 10253-3 - EN 10253-4

Made from welded pipe or plate

Marking: according to EN 10253-3

CERTIFICATES EN 10204/3.1



DN	DN inch	mm	Spessore / Thickness			R	Peso kg / Weight kg		Peso kg / Weight kg	
		De	2,00 mm	3,00 mm	4,00 mm	mm	Spessore / Thickness 2,00 mm	Spessore/Thickness 3,00 mm	Spessore/Thickness 4,00 mm	Spessore/Thickness 4,00 mm
8	1/4"	13,7	❖	//	//	20	0,02	//	//	
10	3/8"	17,2	☒	//	//	28,5	0,02	//	//	
15	1/2"	21,3	☒	2,5	//	28	0,04	0,06	//	
20	3/4"	26,9	☒	2,5	//	29	0,06	0,08	//	
25	1"	33,7	☒	☒	//	38	0,09	0,13	//	
		35	❖	❖	//	52,5	0,11	//	//	
		40	❖	//	//	60	0,16	//	//	
32	1 1/4"	42,4	☒	☒	//	48	0,15	0,22	//	
40	1 1/2"	48,3	☒	☒	//	57	0,17	0,30	//	
		50	❖	❖	//	75	0,31	//	//	
		54	☒	❖	//	75	0,31	//	//	
50	2"	60,3	☒	☒	//	76	0,34	0,51	//	
		70	❖	☒	//	92	0,50	//	//	
65	2 1/2"	76,1	☒	☒	//	95	0,56	0,80	//	
		80	❖	//	//	120	0,72	//	//	
		84	☒	☒	//	120	1,17	//	//	
80	3"	88,9	☒	☒	❖	114	0,78	1,10	1,50	
	3 1/2"	101,6	☒	☒	//	134	1,05	1,60	//	
		104	☒	//	//	150	1,20	//	//	
100	4"	114,3	☒	☒	❖	152	1,30	2,00	2,65	
		129	☒	//	//	187	1,86	//	//	
125	5"	139,7	☒	☒	❖	190	2,10	3,00	4,00	
		154	☒	//	//	225	2,69	//	//	
		156	//	☒	//	225	//	4,06	//	
150	6"	168,3	☒	☒	❖	229	3,10	4,40	6,10	
		204	☒	//	//	300	4,80	//	//	
		206	//	☒	//	300	//	7,21	//	
200	8"	219,1	☒	☒	❖	305	5,20	7,80	10,50	
		254	☒	☒	❖	375	7,42	//	//	
250	10"	273,0	☒	☒	❖	381	8,00	12,00	16,10	
300	12"	323,9	☒	☒	❖	457	11,60	17,40	23,00	
350	14"	355,6	//	☒	❖	533	//	22,20	23,50	
400	16"	406,4	//	☒	❖	610	//	29,10	39,00	
450	18"	457,2	//	☒	//	686	//	36,70	//	
500	20"	508	//	☒	//	762	//	45,00	//	
600	24"	609,6	//	❖	❖	914	//	//	//	

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

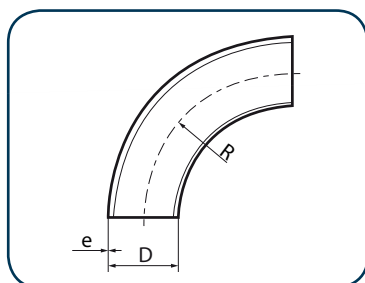
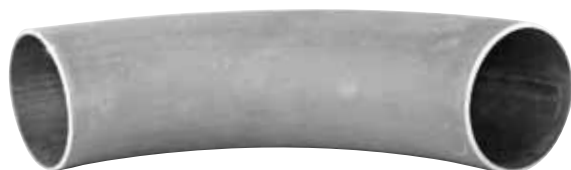
// = Non fornibile

On stock

On request

Not supplied

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CURVE SALDATE 5D 90°

RAGGIO $R=2,5D$

CARATTERISTICHE TECNICHE

Norma dimensionale: EN 10253-3

Ricavate da tubo saldato

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/3.1

WELDED ELBOWS 5D 90°

RADIUS $R=2,5D$

TECHNICAL INFORMATION

Dimensional Standard: EN 10253-3

Made from welded pipe

Marking: according to EN 10253-3

CERTIFICATES EN 10204/3.1

Ø Nom.	Ø	Ø mm	Spessore / Thickness		R	Peso kg / Weight kg	Peso kg / Weight kg
DN	DN inch	De	2,00 mm	3,00 mm	mm	Spessore / Thickness 2,00 mm	Spessore / Thickness 3,00 mm
15	1/2"	21,3	☒	2,6	45	0,07	0,08
20	3/4"	26,9	☒	2,6	57	0,11	0,14
25	1"	33,7	☒	☒	72	0,18	0,27
32	1 1/4"	42,4	☒	3,2	93	0,29	0,45
40	1 1/2"	48,3	☒	3,2	108	0,39	0,61
50	2"	60,3	☒	☒	135	0,62	0,89
65	2 1/2"	76,1	☒	☒	175	1,01	1,44
80	3"	88,9	☒	☒	205	1,39	2,07
100	4"	114,3	☒	☒	270	2,35	3,49

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RIDUZIONI CONCENTRICHE E ECCENTRICHE

CARATTERISTICHE TECNICHE

Ricavate da tubo saldato o lamiera

Dimensioni tipo ISO 5251, forma diritta

Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

CONCENTRIC AND ECCENTRIC REDUCERS

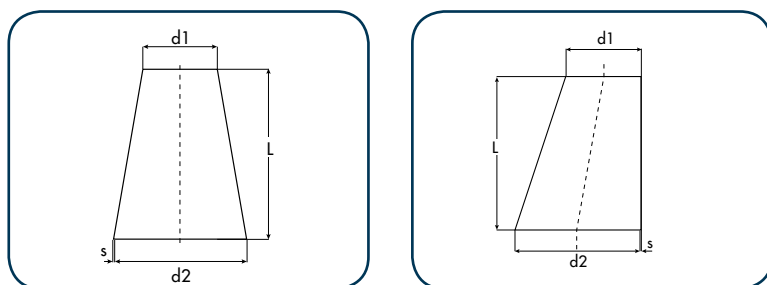
TECHNICAL INFORMATION

Made from welded pipe or plate

Dimensions type ISO 5251, straight form

Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2



Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
10	8	17,2	13,7	28	☒	//	0,02	//
15	8	21,3	13,7	28	☒	//	0,02	//
	10		17,2		☒	//	0,02	//
20	8	26,9	13,7	38	☒	//	0,03	//
	10		17,2		☒	//	0,04	//
	15		21,3		☒	☒	0,04	0,05
25	10	33,7	17,2	51	☒	☒	0,05	0,06
	15		21,3		☒	☒	0,06	0,08
	20		26,9		☒	☒	0,06	0,09
32	15	42,4	21,3	51	☒	☒	0,08	0,12
	20		26,9		☒	☒	0,09	0,13
	25		33,7		☒	☒	0,10	0,15
40	15	48,3	21,3	64	☒	☒	0,11	0,17
	20		26,9		☒	☒	0,12	0,18
	25		33,7		☒	☒	0,13	0,20
	32		42,4		☒	☒	0,15	0,22
50	15	60,3	21,3	76	☒	☒	0,16	0,23
	20		26,9		☒	☒	0,17	0,25
	25		33,7		☒	☒	0,18	0,27
	32		42,4		☒	☒	0,20	0,29
65	40	76,1	48,3	89	☒	☒	0,20	0,31
	20		26,9		☒	☒	0,23	0,34
	25		33,7		☒	☒	0,25	0,37
	32		42,4		☒	☒	0,26	0,39
50	40	60,3	48,3	89	☒	☒	0,28	0,41
	20		26,9		☒	☒	0,30	0,46
	25		33,7		☒	☒	0,30	0,46
	32		42,4		☒	☒	0,30	0,46

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
80	25	88,9	33,7	89	☒	☒	0,27	0,41
	32		42,4		☒	☒	0,29	0,44
	40		48,3		☒	☒	0,30	0,46
	50		60,3		☒	☒	0,33	0,50
	65		76,1		☒	☒	0,37	0,55
50	50	101,6	60,3	98	❖	❖	❖	❖
	65		76,1		❖	❖	❖	❖
	80		88,9		❖	❖	❖	❖
100	25	114,3	33,7	102	☒	☒	0,37	0,57
	32		42,4		☒	☒	0,40	0,60
	40		48,3		☒	☒	0,42	0,62
	50		60,3		☒	☒	0,44	0,67
	65		76,1		☒	☒	0,49	0,73
125	80	139,7	88,9	127	☒	☒	0,52	0,78
	50		60,3		☒	☒	0,64	0,96
	65		76,1		☒	☒	0,69	1,03
	100		114,3		☒	☒	0,73	1,10
150	100	168,3	114,3	140	☒	☒	0,81	1,21
	50		60,3		☒	☒	0,80	1,28
	65		76,1		☒	☒	0,86	1,29
	80		88,9		☒	☒	0,90	1,35
	125		139,7		☒	☒	0,99	1,49
150	100	168,3	114,3	140	☒	☒	1,08	1,62
	50		60,3		☒	☒	1,08	1,62
	65		76,1		☒	☒	1,08	1,62
	80		88,9		☒	☒	1,08	1,62

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

// = Non fornibile

On stock

On request

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RIDUZIONI CONCENTRICHE E ECCENTRICHE

CARATTERISTICHE TECNICHE

Ricavate da tubi saldati o lamiera
Dimensioni tipo ISO 5251, forma diritta
Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

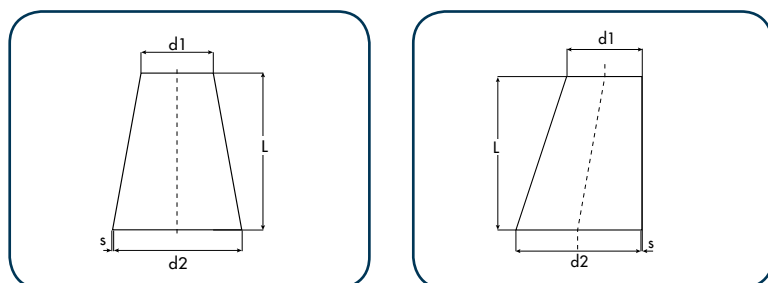
CERTIFICATI EN 10204/2.2

CONCENTRIC AND ECCENTRIC REDUCERS

TECHNICAL INFORMATION

Made from welded pipe or plate
Dimensions type ISO 5251, straight form
Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2



Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG / weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
200	80	219,1	88,9	152	☒	☒	1,18	1,76
	100		114,3		☒	☒	1,27	1,91
	125		139,7		☒	☒	1,37	2,05
	150		168,3		☒	☒	1,48	2,22
250	150	273,0	168,3	178	☒	☒	1,97	2,96
	200		219,1		☒	☒	2,20	3,30
300	200	323,9	219,1	203	☒	☒	2,77	4,15
	250		273,0		☒	☒	3,04	4,37
350	200	355,6	219,1	330	//	❖	//	7,15
	250		273		//	❖	//	7,81
	300		323,9		//	❖	//	8,45
400	250	406,4	273	356	//	❖	//	9,11
	300		323,9		//	❖	//	9,80
	350		355,6		//	❖	//	10,22
450	300	457	323,9	381	//	❖	//	11,21
	350		355,6		//	❖	//	11,69
	400		406,4		//	❖	//	12,40
500	350	508	355,6	508	//	❖	//	16,53
	400		406,4		//	❖	//	17,50
	450		457		//	❖	//	18,48

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

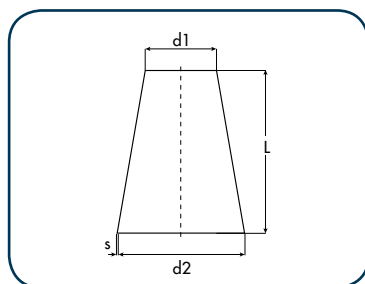
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RIDUZIONI CONCENTRICHE METRICHE

CARATTERISTICHE TECNICHE

Ricavate da tubo saldato o lamiera

Dimensioni tipo ISO 5251, forma dritta

Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

METRIC CONCENTRIC REDUCERS

TECHNICAL INFORMATION

Made from welded pipe or plate

Dimensions type ISO 5251, straight form

Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso Weight
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm			KG
		28	28	25	1,5 mm	1,5 mm	0,02
			20		1,5 mm	1,5 mm	0,03
			25		1,5 mm	1,5 mm	0,04
		30	20	27	1,5 mm	1,5 mm	0,03
			23		1,5 mm	1,5 mm	0,04
		38	25	35	1,5 mm	1,5 mm	0,05
			25		1,5 mm	1,5 mm	0,03
			28		1,5 mm	1,5 mm	0,04
			30		1,5 mm	1,5 mm	0,05
		43	20	40	1,5 mm	1,5 mm	0,06
			25		1,5 mm	1,5 mm	0,07
			28		1,5 mm	1,5 mm	0,08
			30		1,5 mm	1,5 mm	0,09
			33		1,5 mm	1,5 mm	0,10
			38		1,5 mm	1,5 mm	0,06
		50,8	25	47,8	1,5 mm	1,5 mm	0,07
			28		1,5 mm	1,5 mm	0,08
			30		1,5 mm	1,5 mm	0,09
			33		1,5 mm	1,5 mm	0,10
			38		1,5 mm	1,5 mm	0,12
			43		1,5 mm	1,5 mm	0,12
		53	25	50	1,5 mm	1,5 mm	0,13
			28		1,5 mm	1,5 mm	0,14
			30		1,5 mm	1,5 mm	0,15
			33		1,5 mm	1,5 mm	0,16
			38		1,5 mm	1,5 mm	0,17
			43		1,5 mm	1,5 mm	0,18
		63	33	60	1,5 mm	1,5 mm	0,18
			38		1,5 mm	1,5 mm	0,18
			43		1,5 mm	1,5 mm	0,18
			50,8		1,5 mm	1,5 mm	0,19
			53		1,5 mm	1,5 mm	0,20

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso Weight
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm			KG
		73	38	70	1,5 mm	1,5 mm	0,21
			43		2,00 mm	2,00 mm	0,22
			50,8		2,00 mm	2,00 mm	0,26
			53		2,00 mm	2,00 mm	0,28
			63		2,00 mm	2,00 mm	0,30
		84	53	80	2,00 mm	2,00 mm	0,45
			63		2,00 mm	2,00 mm	0,66
			73		2,00 mm	2,00 mm	0,68
			76,1		2,00 mm	2,00 mm	0,70
		104	63	100	2,00 mm	2,00 mm	0,64
			73		2,00 mm	2,00 mm	0,66
			76,1		2,00 mm	2,00 mm	0,68
			84		2,00 mm	2,00 mm	0,70
			60,3	125	2,00 mm	2,00 mm	0,64
		129	73		2,00 mm	2,00 mm	0,66
			76,1		2,00 mm	2,00 mm	0,68
			84		2,00 mm	2,00 mm	0,70
		154	104	150	2,00 mm	2,00 mm	0,73
			84		2,00 mm	2,00 mm	0,89
			104		2,00 mm	2,00 mm	0,97
			129		2,00 mm	2,00 mm	1,06
		204	83	200	2,00 mm	2,00 mm	0,44
			104		2,00 mm	2,00 mm	0,55
			129		2,00 mm	2,00 mm	1,67
			154		2,00 mm	2,00 mm	1,80
			129	250	2,00 mm	2,00 mm	240
		254	154		2,00 mm	2,00 mm	2,56
			204		2,00 mm	2,00 mm	2,88
		304	254	300	2,00 mm	2,00 mm	4,20

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RIDUZIONI CONCENTRICHE E ECCENTRICHE DIRITTE

CARATTERISTICHE TECNICHE

Dimensioni e tolleranze accordo EN 10253-3 (EX AFNOR)

Le riduzioni sono ricavate da tubo saldato o lamiera

Lunghezza delle riduzioni secondo quanto esposto in tabella
L= 3X(DIAM MAG - DIAM min.)

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/2.2

CONCENTRIC AND ECCENTRIC REDUCERS STRAIGHT

TECHNICAL INFORMATION

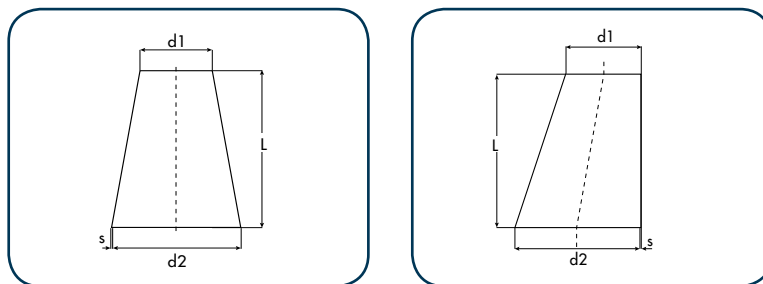
Dimensions and tolerances according to EN 10253-3 (EX AFNOR)

Reducers are made out of welded pipe or plate

Reducers length: according to the size - table beside L= 3X (bigger Ø - smaller Ø)

Marking: in according to EN 10253-3

CERTIFICATES EN 10204/2.2



Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG Weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
15	10	21,3	17,2	12	☒	//	0,02	//
20	15	26,9	21,3	17	☒	//	0,04	//
25	20	33,7	26,9	20	☒	//	0,06	//
32	20	42,4	26,9	46	☒	//	0,09	//
	25		33,7	26	☒	//	0,05	//
40	20	48,3	26,9	63	☒	☒	0,12	0,18
	25		33,7	43	☒	☒	0,09	0,13
	32		42,4	17	☒	☒	0,04	0,06
50	20	60,3	26,9	99	☒	☒	0,22	0,33
	25		33,7	79	☒	☒	0,19	0,28
	32		42,4	53	☒	☒	0,14	0,21
	40		48,3	36	☒	☒	0,09	0,14
65	25	76,1	33,7	126	☒	☒	0,35	0,53
	32		42,4	100	☒	☒	0,30	0,45
	40		48,3	82	☒	☒	0,26	0,39
	50		60,3	47	☒	☒	0,16	0,24
80	32	88,9	42,4	138	☒	☒	0,46	0,69
	40		48,3	120	☒	☒	0,42	0,63
	50		60,3	85	☒	☒	0,32	0,48
	65		76,1	38	☒	☒	0,16	0,24

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG Weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
100	40	114,3	48,3	195	☒	☒	0,81	1,21
	50		60,3	160	☒	☒	0,71	1,06
	65		76,1	113	☒	☒	0,56	0,83
	80		88,9	75	☒	☒	0,39	0,58
125	50	139,7	60,3	235	☒	☒	1,20	1,80
	65		76,1	188	☒	☒	1,03	1,55
	80		88,9	155	☒	☒	0,87	1,31
	100		114,3	75	☒	☒	0,49	0,73
150	65	168,3	76,1	273	☒	☒	1,70	2,55
	80		88,9	235	☒	☒	1,54	2,31
	100		114,3	160	☒	☒	1,15	1,73
	125		139,7	85	☒	☒	0,60	0,99

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On stock

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RIDUZIONI CONCENTRICHE E ECCENTRICHE DIRITTE

CARATTERISTICHE TECNICHE

Dimensioni e tolleranze accordo EN 10253-3 (EX AFNOR)

Le riduzioni sono ricavate da tubo saldato o lamiera

Lunghezza delle riduzioni secondo quanto esposto in tabella L= 3X (DIAM MAG - DIAM min.)

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/2.2

CONCENTRIC AND ECCENTRIC REDUCERS STRAIGHT

TECHNICAL INFORMATION

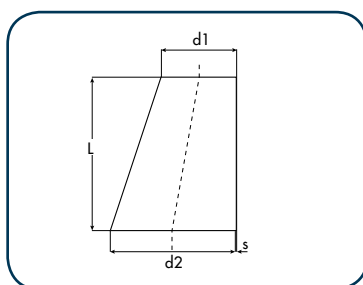
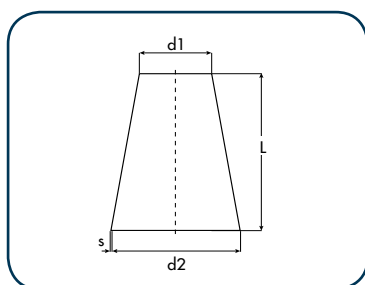
Dimensions and tolerances according to EN 10253-3 (EX AFNOR)

Reducers are made out of welded pipe or plate

Reducers length: according to the size - table beside L= 3X (bigger Ø - smaller Ø)

Marking: in according to EN 10253-3

CERTIFICATES EN 10204/2.2



Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso KG Weight KG	
DN ₁	DN ₂	D _{e1} mm	D _{e2} mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
200	80	219,1	88,9	385	☒	☒	3,02	4,53
	100		114,3	310	☒	☒	2,63	3,95
	125		139,7	235	☒	☒	2,15	3,22
	150		168,3	150	☒	☒	1,48	2,23
250	150	273,0	168,3	510	☒	☒	3,48	5,22
	200		219,1	160	☒	☒	1,99	2,99
300	200	323,9	219,1	310	☒	☒	4,29	6,43
	250		273,0	151	☒	☒	2,29	3,43
350	200	355,6	219,1	404	//	❖	//	8,87
	250		273	244	//	❖	//	5,87
	300		323,9	94	//	❖	//	2,44
400	250	406,4	273	395	//	❖	//	10,29
	300		323,9	244	//	❖	//	6,81
	350		355,6	150	//	❖	//	4,38
450	300	457	323,9	395	//	❖	//	11,77
	350		355,6	301	//	❖	//	9,34
	400		406,4	150	//	❖	//	4,96
500	350	508	355,6	451	//	❖	//	14,88
	400		406,4	301	//	❖	//	10,51
	450		457	150	//	❖	//	5,54

☒ = Disponibile a magazzino

On stock

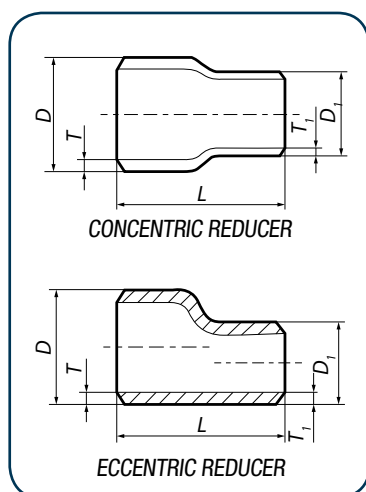
❖ = Disponibile a richiesta

On request

// = Non fornibile

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RIDUZIONI CONCENTRICHE E ECCENTRICHE

CARATTERISTICHE TECNICHE

Le riduzioni sono ricavate da tubo saldato o lamiera

Dimensioni e tolleranze in accordo EN 10253-3

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 102042.2

CONCENTRIC AND ECCENTRIC REDUCERS

TECHNICAL INFORMATION

Reducers are made out of welded pipe or plate

Dimensions and tolerances according to EN 10253-3

Marking: in according to EN 10253-3

CERTIFICATES EN 10204/2.2

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso Weight kg	
DN	DN ₁	D mm	D ₁ mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
20	8	26,9	13,7	38	☒	//	0,03	//
	10		17,2		☒	//	0,04	//
	15		21,3		☒	☒	0,04	0,05
25	10	33,7	17,2	51	☒	☒	0,05	0,06
	15		21,3		☒	☒	0,06	0,08
	20		26,9		☒	☒	0,06	0,09
32	15	42,4	21,3	51	☒	☒	0,08	0,12
	20		26,9		☒	☒	0,09	0,13
	25		33,7		☒	☒	0,10	0,15
40	15	48,3	21,3	64	☒	☒	0,11	0,17
	20		26,9		☒	☒	0,12	0,18
	25		33,7		☒	☒	0,13	0,20
	32		42,4		☒	☒	0,15	0,22
50	15	60,3	21,3	76	☒	☒	0,16	0,23
	20		26,9		☒	☒	0,17	0,25
	25		33,7		☒	☒	0,18	0,27
	32		42,4		☒	☒	0,20	0,29
65	40	76,1	48,3	89	☒	☒	0,20	0,31
	20		26,9		☒	☒	0,23	0,34
	25		33,7		☒	☒	0,25	0,37
	32		42,4		☒	☒	0,26	0,39
	40		48,3		☒	☒	0,28	0,41
65	50		60,3		☒	☒	0,30	0,46

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso Weight kg	
DN	DN ₁	D mm	D ₁ mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
80	25	88,9	33,7	89	☒	☒	0,27	0,41
	32		42,4		☒	☒	0,29	0,44
	40		48,3		☒	☒	0,30	0,46
	50		60,3		☒	☒	0,33	0,50
	65		76,1		☒	☒	0,37	0,55
100	25	114,3	33,7	102	☒	☒	0,37	0,57
	32		42,4		☒	☒	0,40	0,60
	40		48,3		☒	☒	0,42	0,62
	50		60,3		☒	☒	0,44	0,67
125	65	139,7	76,1	127	☒	☒	0,49	0,73
	80		88,9		☒	☒	0,52	0,78
	100		114,3		☒	☒	0,64	0,90
	125		139,7		☒	☒	0,69	1,03
150	50	168,3	60,3	140	☒	☒	0,73	1,10
	65		76,1		☒	☒	0,81	1,21
	80		88,9		☒	☒	0,80	1,28
	100		114,3		☒	☒	0,86	1,29
	125		139,7		☒	☒	0,90	1,35
150	150		150		☒	☒	0,99	1,49
	150		150		☒	☒	1,08	1,62

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

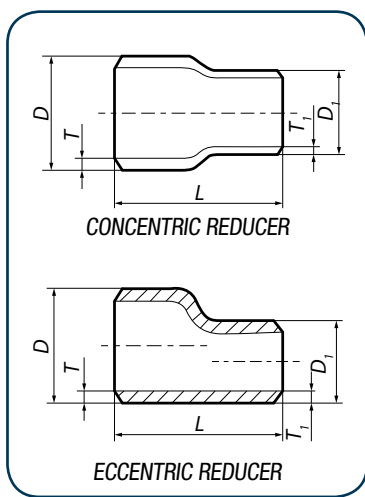
// = Non fornibile

On stock

On request

Not supplied

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



RIDUZIONI CONCENTRICHE E ECCENTRICHE

CARATTERISTICHE TECNICHE

Le riduzioni sono ricavate da tubo saldato o lamiera

Dimensioni e tolleranze in accordo EN 10253-3

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/2.2

CONCENTRIC AND ECCENTRIC REDUCERS

TECHNICAL INFORMATION

Reducers are made out of welded pipe or plate

Dimensions and tolerances according to EN 10253-3

Marking: in according to EN 10253-3

CERTIFICATES EN 10204/2.2

Diametro nom. Nominal diam.		Diametro est. Outs. diameter		Lunghezza Length	Spessore Thickness		Peso Weight Kg	
DN	DN ₁	D mm	D ₁ mm	L mm	2,00 mm	3,00 mm	2,00 mm	3,00 mm
200	80	219,1	88,9	152	☒	☒	1,18	1,76
	100		114,3		☒	☒	1,27	1,91
	125		139,7		☒	☒	1,37	2,05
	150		168,3		☒	☒	1,48	2,22
250	150	273,0	168,3	178	☒	☒	1,97	4,96
	200		219,1		☒	☒	2,20	3,30
300	200	323,9	219,1	203	☒	☒	2,77	4,15
	250		273,0		☒	☒	3,04	4,37
350	200	355,6	219,1	330	//	❖	//	7,15
	250		273		//	❖	//	7,81
	300		323,9		//	❖	//	8,45
400	250	406,4	273	356	//	❖	//	9,11
	300		323,9		//	❖	//	9,80
	350		355,6		//	❖	//	10,22
450	300	457	323,9	381	//	❖	//	11,21
	350		355,6		//	❖	//	11,69
	400		406,4		//	❖	//	12,40
500	350	508	355,6	508	//	❖	//	16,53
	400		406,4		//	❖	//	17,50
	450		457		//	❖	//	18,48

☒ = Disponibile a magazzino

On stock

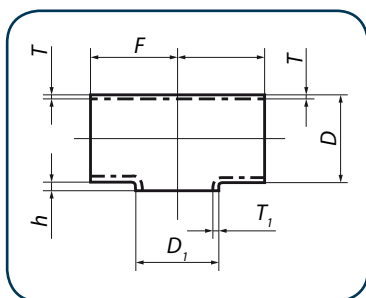
❖ = Disponibile a richiesta

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// = Non fornibile

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TEES UGUALI E RIDOTTI SBOCCATI

CARATTERISTICHE TECNICHE

I raccordi a T sono ricavati da tubo saldato o lamiera

Dimensioni e tolleranze tipo EN 10253-3

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/2.2

EQUAL AND REDUCER PULLED TEES

TECHNICAL INFORMATION

Tee are made out of welded pipe or plate

Dimensions and tolerances type EN 10253-3

Marking: according to EN 10253-3

CERTIFICATES EN 10204/2.2

Diam. nominale Nominal diam.			Diam. esterno Outs. diam.			Spessore / Thickness	
DNØ	DN mm	DN ₁	D ₁ mm	F mm	h mm	2,00 mm	3,00 mm
50	60,3	50	60,3	50	3	☒	☒
		40	48,3		3	❖	❖
		32	42,4		2	❖	❖
		25	33,7		2	❖	❖
65	76,1	65	76,1	65	4	☒	☒
		50	60,3		3	❖	❖
		40	48,3		3	❖	❖
		32	42,4		2	❖	❖
80	88,9	80	88,9	80	5	☒	☒
		65	76,1		4	❖	❖
		50	60,3		3	❖	❖
		40	48,3		3	❖	❖
100	114,3	100	114,3	100	7	☒	☒
		80	88,9		5	❖	❖
		65	76,1		4	❖	❖
		50	60,3		3	❖	❖
125	139,7	125	139,7	125	8	☒	☒
		100	114,3		7	❖	❖
		80	88,9		5	❖	❖
		65	76,1		4	❖	❖

Diam. nominale Nominal diam.			Diam. esterno Outs. diam.			Spessore / Thickness	
DNØ	DN mm	DN ₁	D ₁ mm	F mm	h mm	2,00 mm	3,00 mm
150	168,3	150	168,3	150	10	☒	☒
		125	139,7		8	❖	❖
		100	114,3		7	❖	❖
		80	88,9		5	❖	❖
200	219,1	200	219,1	200	12	☒	☒
		150	168,3		10	❖	❖
		125	139,7		8	❖	❖
		100	114,3		7	❖	❖
250	273	250	273	250	13	☒	☒
		200	219,1		12	❖	❖
		150	168,3		10	❖	❖
		125	139,7		8	❖	❖

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

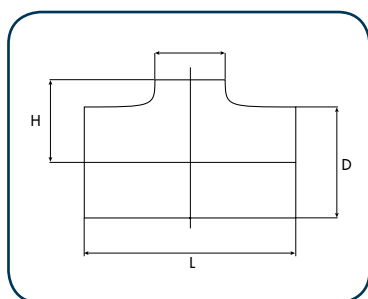
// = Non fornibile

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TEES UGUALI IDROFORMATI

CARATTERISTICHE TECNICHE

Dimensioni tipo ISO 5251 con altezza del colletto di derivazione più alto come esposto in tabella, tale da permettere la saldatura automatica

Ricavati da tubo saldato

Derivazione lavorata a macchina con spessore costante che permette una saldatura orbitale e perfetta

CERTIFICATI EN 10204/2.2

HYDROFORMED EQUAL TEES

TECHNICAL INFORMATION

Dimensions type ISO 5251 with branch higher as shown in the table, such as to enable the automatic welding

Made from welded pipe

A machined neck with a regular wall thickness enabling a perfect orbital welding

CERTIFICATES EN 10204/2.2

DN	D mm	L mm	H mm	Spessore / Thickness		Peso / Weight kg	
				2,00 mm	3,00 mm	2,00 mm	3,00 mm
15	21,3	50	18	☒	//	0,04	//
20	26,9	58	22	☒	//	0,05	//
25	33,7	76	26	☒	//	0,13	//
32	42,4	95	33	☒	//	0,19	//
40	48,3	114	37	☒	//	0,25	//
50	60,3	127	44	☒	❖	0,40	0,62
65	76,1	152	53	☒	❖	0,55	0,83
80	88,9	171	60	☒	❖	0,80	1,00
100	114,3	210	67	☒	❖	1,18	1,70
125	139,7	248	81	☒	❖	1,50	2,60
150	168,3	286	96	☒	❖	2,20	3,20
200	219,1	356	120	☒	❖	3,40	5,30

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

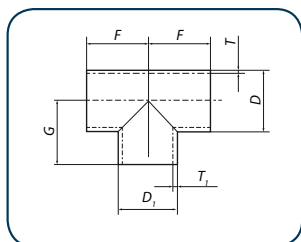
// = Non fornibile

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TEES SALDATI UGUALI E RIDOTTI

CARATTERISTICHE TECNICHE

Ricavati da tubo saldato o lamiera.

Dimensioni tipo EN 10253-3 con colletto di derivazione saldato

Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

EQUAL AND REDUCER WELDED TEE

TECHNICAL INFORMATION

Made from welded pipe or plate.

Dimensions type EN 10253-3 with welded branch.

Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2

Diam. nominale Nominal diam.		Diam. esterno Outs. diam.		Altezza Height	Altezza Height	Spessore / Thickness	
DN	D mm	DN1	D1 mm	F mm	G mm	2,00 mm	3,00 mm
8	13,7	8	13,7	27	-	1,5	//
10	17,2	10	17,2	30	-	1,5	//
15	21,3	15	21,3	25	-	☒	☒
20	26,9	20	26,9	29	-	☒	☒
		15	21,3		29	☒	☒
25	33,7	25	33,7	38	-	☒	☒
		20	26,9		38	☒	☒
		15	21,3		38	☒	☒
32	42,4	32	42,4	48	-	☒	☒
		25	33,7		48	☒	☒
		20	26,9		48	☒	☒
		15	21,3		48	☒	☒
40	48,3	40	48,3	57	-	☒	☒
		32	42,4		57	☒	☒
		25	33,7		57	☒	☒
		20	26,9		57	☒	☒
50	60,3	50	60,3	64	-	☒	☒
		40	48,3		40	☒	☒
		32	42,4		57	☒	☒
		25	33,7		51	☒	☒
65	76,1	65	76,1	76	-	☒	☒
		50	60,3		70	☒	☒
		40	48,3		67	☒	☒
		32	42,3		64	☒	☒
80	88,9	80	88,9	86	-	☒	☒
		65	76,1		83	☒	☒
		50	60,3		76	☒	☒
		40	48,3		73	☒	☒

Diam. nominale Nominal diam.		Diam. esterno Outs. diam.		Altezza Height	Altezza Height	Spessore / Thickness	
DN	D mm	DN1	D1 mm	F mm	G mm	2,00 mm	3,00 mm
100	114,3	100	114,3	105	-	☒	☒
		80	88,9		98	☒	☒
		65	76,1		95	☒	☒
		50	60,3		89	☒	☒
125	139,7	125	139,7	124	-	☒	☒
		100	114,3		117	☒	☒
		80	88,9		111	☒	☒
		65	76,1		108	☒	☒
150	168,3	150	168,3	143	-	☒	☒
		125	139,7		137	☒	☒
		100	114,3		130	☒	☒
		80	88,9		124	☒	☒
200	219,1	200	219,1	178	-	☒	☒
		150	168,3		168	☒	☒
		125	139,7		162	☒	☒
		100	114,3		156	☒	☒
250	273	250	273	216	-	☒	☒
		200	219,1		203	☒	☒
		150	168,3		194	☒	☒
		125	139,7		191	☒	☒

☒ = Disponibile a magazzino

On stock

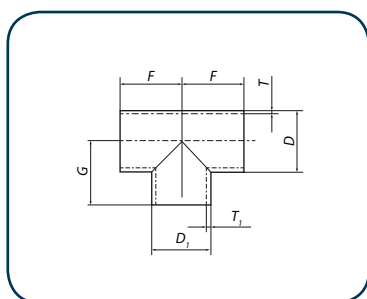
☒ = Disponibile a richiesta

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TEES SALDATI UGUALI E RIDOTTI

CARATTERISTICHE TECNICHE

Ricavati da tubo saldato o lamiera.

Dimensioni tipo EN 10253-3 con colletto di derivazione saldato
Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

EQUAL AND REDUCER WELDED TEE

TECHNICAL INFORMATION

Made from welded pipe or plate.

Dimensions type EN 10253-3 with welded branch.

Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2

Diam. nominale Nominal diam.		Diam. esterno Outs. diam.		Altezza Height	Altezza Height	Spessore / Thickness	
DN	D mm	DN1	D1 mm	F mm	G mm	2,00 mm	3,00 mm
300	323,9	300	323,9	254	-	☒	☒
		250	273		241	☒	☒
		200	219,1		229	☒	☒
		150	168,3		219	☒	☒
350	355,6	350	355,6	279	-	//	☒
		300	323,9		270	//	☒
		250	273		257	//	☒
		200	219,1		248	//	☒
400	406,4	400	406,4	305	-	//	☒
		350	355,6		305	//	☒
		300	323,9		295	//	☒
		250	273		283	//	☒
450	457	450	457	343	-	//	☒
		400	406,4		330	//	☒
		350	355,6		330	//	☒
		300	323,9		321	//	☒
500	508	500	508	381	-	//	☒
		450	457		368	//	☒
		400	406,4		356	//	☒
		350	355,6		356	//	☒

☒ = Disponibile a magazzino

On stock

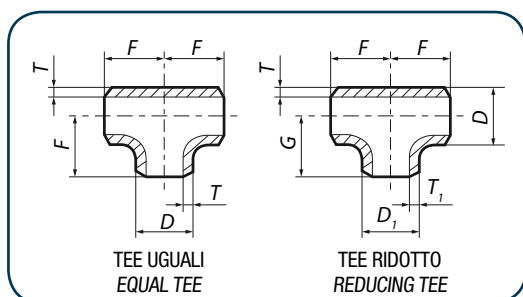
❖ = Disponibile a richiesta

On request

// = Non fornibile

Not supplied

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TEES SALDATI UGUALI E RIDOTTI

CARATTERISTICHE TECNICHE

Norma dimensionale EN 10253-3

Ricavati da tubo saldato o da lamiera.

Marcatura: in accordo EN 10253-3

CERTIFICATI EN 10204/2.2

EQUAL AND REDUCER WELDED TEE

TECHNICAL INFORMATION

Dimensional standard EN 10253-3,

Made from welded pipe or plate.

Marking: according to EN 10253-3

CERTIFICATES EN 10204/2.2

Diam. nominale Nominal diam.		Diam. esterno Outs. diam.		Altezza Height	Altezza Height	Spessore / Thickness	
DN	D mm	DN1	D1 mm	F mm	G mm	2,00 mm	3,00 mm
8	13,7	8	13,7	27	-	1,5	//
10	17,2	10	17,2	30	-	1,5	//
15	21,3	15	21,3	25	-	☒	☒
20	26,9	20	26,9	29	-	☒	☒
		15	21,3		29	☒	☒
25	33,7	25	33,7	38	-	☒	☒
		20	26,9		38	☒	☒
		15	21,3		38	☒	☒
32	42,4	32	42,4	48	-	☒	☒
		25	33,7		48	☒	☒
		20	24,9		48	☒	☒
		15	21,3		48	☒	☒
40	48,3	40	48,3	57	-	☒	☒
		32	42,4		57	☒	☒
		25	33,7		57	☒	☒
		20	26,9		57	☒	☒
50	60,3	50	60,3	64	-	☒	☒
		40	48,3		60	☒	☒
		32	42,4		57	☒	☒
		25	33,7		51	☒	☒
65	76,1	65	76,1	76	-	☒	☒
		50	60,3		70	☒	☒
		40	48,3		67	☒	☒
		32	42,4		64	☒	☒

Diam. nominale Nominal diam.		Diam. esterno Outs. diam.		Altezza Height	Altezza Height	Spessore / Thickness	
DN	D mm	DN1	D1 mm	F mm	G mm	2,00 mm	3,00 mm
80	88,9	86	88,9	86	-	☒	☒
			76,1		83	☒	☒
			60,3		76	☒	☒
			48,3		73	☒	☒
100	114,3	105	114,3	105	-	☒	☒
			88,9		98	☒	☒
			76,1		95	☒	☒
			60,3		89	☒	☒
125	139,7	124	139,7	124	-	☒	☒
			114,3		117	☒	☒
			88,9		111	☒	☒
			76,1		108	☒	☒
150	168,3	143	168,3	143	-	☒	☒
			139,7		137	☒	☒
			114,3		130	☒	☒
			88,9		124	☒	☒
200	219,1	178	219,1	178	-	☒	☒
			168,3		168	☒	☒
			139,7		162	☒	☒
			114,3		156	☒	☒

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

// = Non fornibile

On stock

On request

Not supplied

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FONDI BOMBATI

CARATTERISTICHE TECNICHE

Dimensioni tipo EN 10253-3 con altezze secondo quanto esposta in tabella

Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

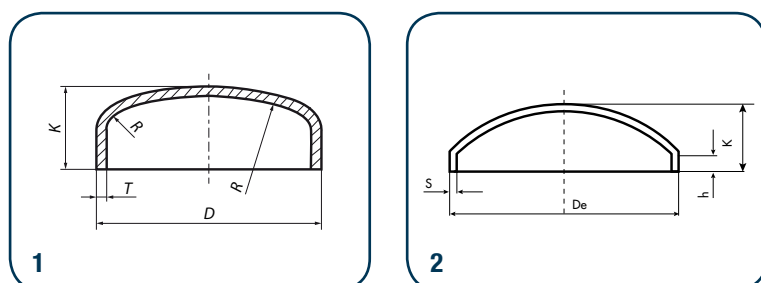
CAPS

TECHNICAL INFORMATION

Dimensions type EN 10253-3 with lenght according to the size table beside

Marking: producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2



DN	DN inch	mm	K 1	K* 2			Peso kg / Weight kg			Spessore / Thickness		
		De		2,00 mm	3,00 mm	4,00 mm	2,00 mm	3,00 mm	4,00 mm	2,00 mm	3,00 mm	4,00 mm
10	3/8"	17,2	//	11,5	//	//	0,01	//	//	☒	//	//
15	1/2"	21,3	25	9	15,5	//	0,01	0,02	//	☒	☒	//
20	3/4"	26,9	25	10,5	12	//	0,01	0,02	//	☒	☒	//
25	1"	33,7	38	12,5	14,5	//	0,02	0,03	//	☒	☒	//
32	1 1/4"	42,4	38	17	18	18	0,04	0,06	//	☒	☒	//
40	1 1/2"	48,3	38	17	23	23	0,05	0,08	0,11	☒	☒	❖
50	2"	60,3	38	20	22	22	0,08	0,11	0,15	☒	☒	❖
65	2 1/2"	76,1	38	27	29	29	0,13	0,19	0,26	☒	☒	❖
80	3"	88,9	51	29	30	30	0,16	0,24	0,33	☒	☒	❖
90	3 1/2"	101,6	//	26	27	27	0,19	0,28	0,37	☒	☒	❖
100	4"	114,3	64	32	32	32	0,25	0,37	0,49	☒	☒	❖
125	5"	139,7	76	35	36	36	0,37	0,53	0,71	☒	☒	❖
150	6"	168,3	89	40	43	43	0,52	0,77	1,15	☒	☒	❖
200	8"	219,1	102	50	51	51	0,85	1,27	1,87	☒	☒	❖
250	10"	273,0	127	63	62	61	1,31	1,97	2,62	☒	☒	❖
300	12"	323,9	152	72	72	72	1,81	2,72	3,62	☒	☒	❖
350	14"	355,6	165	//	89	89	//	3,52	5,31	//	☒	❖
400	16"	406,4	178	//	107	107	//	4,52	6,53	//	☒	❖
450	18"	457,2	203	//	120	120	//	5,46	7,87	//	☒	❖
500	20"	508	229	//	140	140	//	6,56	10,29	//	❖	❖
600	24"	609,6	267	//	152	152	//	45,00	14,10	//	❖	❖

☒ = Disponibile a magazzino

❖ = Disponibile a richiesta

// = Non fornibile

On stock

On request

Not supplied

* Altezza non prevista dalla norma EN 10253-3

* Height not provided by the standard EN 1025-3

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



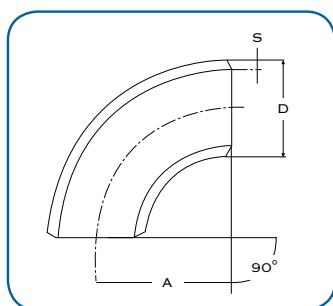
R=1D CURVE SENZA SALDATURE

EN 10253-2

R=1D SEAMLESS ELBOWS

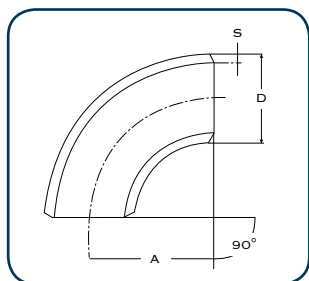
EN 10253-2

CARBON STEEL



Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
26,90	2,30	25	39	0,06
33,70	2,30	25	42	0,08
	2,60			0,10
42,40	2,60	32	53	0,15
48,30	2,60	38	62	0,18
60,30	2,90	51	81	0,36
76,10	2,90	63	102	0,50
88,90	3,20	76	121	0,88
114,30	3,60	102	159	1,62
	6,30			2,77
133,00	4,00	125	192	2,50
139,70	4,00	127	197	2,79
168,30	4,50	152	237	4,43
	7,10			6,87
219,10	6,30	203	313	10,90
	8,00			13,70
	12,50			21,00
273,00	6,30	254	391	16,50
	8,80			22,90
323,90	7,10	305	467	26,90
355,60	8,00	356	533	38,20
406,40	8,80	406	610	55,10

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



R=1,5D CURVE SENZA SALDATURA

EN 10253-2

R=1,5D SEAMLESS ELBOWS

EN 10253-2

CARBON STEEL

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
17,00	2,00	20	29	0,02
21,30	2,00	38*	39	0,04
	2,90			0,06
	3,20			0,06
	3,60			0,07
	4,00			0,08
26,90	2,30	38*	42	0,06
	2,90			0,08
	3,20			0,09
	3,60			0,10
	4,00			0,10
30,00	2,60	34	48	0,09
	2,90			0,10
31,80	2,60	35	51	0,11
	2,90			0,12
	3,20			0,13
	3,60			0,14
	4,00			0,15
33,70	2,30	38*	55	0,11
	2,60			0,12
	3,20			0,15
	3,60			0,16
	4,00			0,18
	4,50			0,20
	5,00			0,21
	6,30			0,26

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
38,00	2,60	45	64	0,16
	2,90			0,18
42,40	2,60	48	69	0,19
	3,20			0,23
	3,60			0,26
	4,00			0,29
	4,50			0,32
	5,00			0,35
44,50	2,60	51	73	0,22
	2,90			0,24
48,30	2,60	57	81	0,26
	3,20			0,32
	3,60			0,36
	4,00			0,39
	4,50			0,44
	5,00			0,48
51,00	2,60	64	88	0,31
	2,90			0,35
	54,00	73	100	0,38
57,00	2,90	72	100	0,44
	3,20			0,48
60,30	2,90	76	106	0,49
	3,20			0,54
	3,60			0,60
	4,00			0,67
	4,50			0,74
	5,00			0,82
	5,60			0,90
	6,30			1,00

* R=28 ACCORDING TO DIN 2609

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

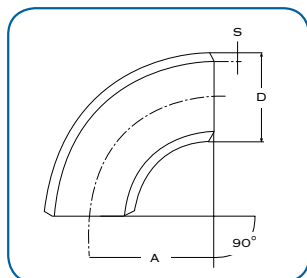
Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
60,30	7,10	76	106	1,11
	8,00			1,23
	8,80			1,34
	10,00			1,48
	11,00			1,60
63,50	2,90	83	114	0,56
70,00	2,90	92	127	0,70
	3,20			0,76
76,10	2,90	95	133	0,78
	3,20			0,86
	3,60			0,96
	4,00			1,06
	4,50			1,19
	5,00			1,31
	5,60			1,46
	6,30			1,62
	7,10			1,81
82,50	3,20	108	149	1,06
	3,60			1,19
	4,00			1,31
88,90	3,20	114	159	1,22
	3,60			1,36
	4,00			1,51
	4,50			1,69
	5,00			1,86
	5,60			2,07
	6,30			2,31
	7,10			2,58
	8,00			2,87
	12,50			4,24
101,60	3,60	134	184	1,83
	4,00			2,02
	4,50			2,26
	5,00			2,50
	5,60			2,78
108,00	3,60	142	196	2,08
	4,00			2,30
	4,50			2,57
	5,00			2,85
	5,60			3,17

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
114,30	3,60	152	210	2,36
	4,00			2,61
	4,50			2,92
	5,00			3,23
	5,60			3,60
	6,30			4,02
	7,10			4,50
	8,00			5,03
	8,80			5,49
	12,50			7,52
133,00	4,00	181	247	3,62
	4,50			4,06
	5,00			4,49
	5,60			5,00
	8,00			7,01
	10,00			8,63
139,70	4,00	190	260	4,01
	4,50			4,49
	5,00			4,97
	5,60			5,54
	6,30			6,20
	7,10			6,95
	8,80			8,50
	10,00			9,57
159,00	4,50	216	294	5,82
	5,00			6,45
	5,60			7,19
	6,30			8,05
	7,10			9,03
	8,00			10,10
168,30	4,50	228	313	6,53
	5,00			7,23
	5,60			8,07
	6,30			9,04
	7,10			10,10
	8,80			12,40
	11,00			15,30
	12,50			17,20
	5,60	270	367	11,00
	6,30			12,40
	7,10			13,90
	8,00			15,50
193,87	8,80	270	367	17,00

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Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
219,10	6,30	305	415	15,80
	7,10			17,80
	8,00			20,00
	8,80			21,90
	10,00			24,70
	12,50			30,50
244,50	6,30	340	462	19,80
	7,10			22,20
	8,00			24,90
	8,80			27,30
	10,00			30,90
	12,50			38,20
267,00	6,30	373	507	23,70
273,00	6,30	381	517	24,80
	7,10			27,90
	8,00			31,30
	8,80			34,30
	10,00			38,80
	12,50			48,10
323,90	7,10	457	619	39,80
	8,00			44,70
	8,80			49,10
	0,00			55,60
	12,50			68,90

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
355,60	8,00	533	711	57,50
	8,80			63,10
	10,00			71,40
	12,50			88,60
368,00	8,00	552	736	59,00
406,40	8,80	609	813	82,60
	10,00			93,60
	12,50			116,00
457,00	10,00	686	914	119,00
	12,50			148,00
508,00	11,00	762	1016	161,00
	12,50			183,00
558,80	12,50	838	1118	222,00
609,60	12,50	914	1219	260,00



R=2,5D
CURVE SENZA SALDATURA
 EN 10253-2

R=2,5D
SEAMLESS ELBOWS
 EN 10253-2

CARBON STEEL

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
21,30	2,00	43	53	0,07
	2,90			0,09
	3,60			0,11
26,90	2,30	8	71	0,13
	2,90			0,16
	4,00			0,21
33,70	2,60	73	89	0,23
	3,60			0,31
	4,50			0,37
38,00	2,60	83	101	0,30
42,40	2,60	93	114	0,37
	3,60			0,50
	5,00			0,67
48,30	2,50	108	132	0,50
	3,60			0,67
	5,00			0,90
60,30	2,90	135	165	0,87
	4,00			1,18
	5,0			1,60
70,00	2,90	160	195	1,21
76,10	2,90	175	213	1,44
	5,00			2,41
	7,10			3,32
88,90	3,20	205	249	2,18
	5,60			3,71
	8,00			5,14
101,60	3,60	238	288	3,25
	5,60			4,95
	8,00			6,89

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
108,00	3,60	253	306	3,68
114,30	3,60	270	327	4,17
	6,30			7,12
	8,80			9,71
133,00	4,00	313	379	6,25
139,70	4,00	330	400	6,94
	6,30			10,80
	10,00			16,60
159,00	4,50	375	454	10,10
168,30	4,50	390	474	11,10
	7,10			17,30
	11,00			26,10
193,87	5,60	455	552	17,90
219,10	6,30	510	619	26,50
	8,00			33,40
	12,50			51,00
244,50	6,30	580	702	33,70
273,00	6,30	650	786	42,30
	10,00			66,20
	12,50			82,00
323,90	7,10	775	937	67,50
	10,00			94,20
	12,50			117,00
355,60	8,00	850	1028	91,60
	10,00			114,00
	12,50			141,00
406,40	8,80	970	1173	132,00
	10,00			149,00
	12,50			185,00

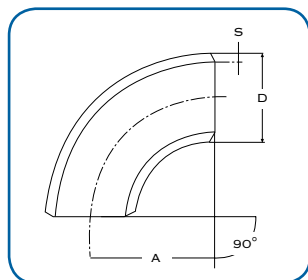
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



R=5D
CURVE SENZA SALDATURA
 EN 10253-2

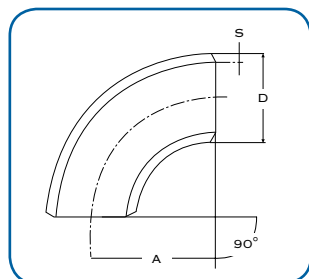
R=5D
SEAMLESS ELBOWS
 EN 10253-2

CARBON STEEL



Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
48,30	2,60	190	214	0,87
	3,60			1,18
60,30	2,90	254	284	1,64
	4,00			2,22
88,90	3,20	381	425	4,05
	5,60			6,88
114,30	3,60	508	585	7,84
	6,30			13,39
168,30	4,50	762	846	21,76
	7,10			33,78
219,10	6,30	1016	1126	52,76
	8,00			66,47
273,00	6,30	1270	1407	82,66
	8,80			114,38
323,90	6,30	1524	1666	118,13
	8,80			163,70
	10,00			185,32
355,60	7,92	1956	2136	208,65
	9,50			249,13
406,40	7,92	2235	2438	273,24
	9,50			326,45

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



R=1,5D
CURVE SALDATE
EN 10253-2

R=1,5D
WELDED ELBOWS
EN 10253-2

CARBON STEEL

Ø EST.MM OUTS.DIAM MM	Spessore Thickness	Raggio Radius	H	Peso Teorico Theoretical Weight Kg
26,90	2,30	29	43	0,06
33,70	2,60	38	56	0,12
42,40	2,60	48	69	0,19
48,30	2,60	57	82	0,26
60,30	2,90	76	106	0,49
76,10	2,90	95	133	0,78
88,90	3,20	114	159	1,22
101,60	3,60	134	184	1,83
108,00	3,60	143	196	2,08
114,30	3,60	152	210	2,36
133,00	4,00	181	247	3,62
139,70	4,00	190	260	4,00
159,00	4,50	216	294	5,80
168,30	4,50	229	313	6,50
193,70	5,60	270	367	11,00
219,10	4,50	305	414	11,40
	6,30			15,80
273,00	5,00	381	518	19,80
	6,30			24,80
323,90	5,60	457	619	31,60
	7,10			39,80
355,60	5,60	533	711	40,50
406,00	6,30	610	813	67,00
457,20	6,30	686	914	84,90
508,00	6,30	762	1016	105,00
609,60	6,30	914	1219	152,00
	7,10			152,00
711,00	7,10	1067	1422	232,00
	8,00			232,00
813,00	8,00	1219	1626	232,00

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



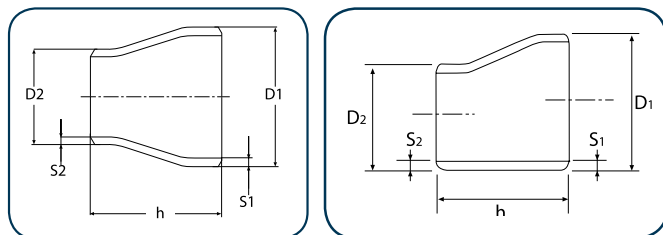
RIDUZIONI CONCENTRICHE E ECCENTRICHE SENZA SALDATURA

EN 10253-2

SEAMLESS CONCENTRIC AND ECCENTRIC REDUCERS

EN 10253-2

CARBON STEEL



Ø D1 EST.MM Ø D1 OUTS. DIAM MM	Ø D2 EST.MM Ø D2 OUTS. DIAM MM	SPESSORE THICKNESS 1	SPESSORE THICKNESS 2	H	PESO TEORICO THEORETICAL WEIGHT KG
33,70	26,90	2,60	2,30	50	0,09
42,40	26,90	2,60	2,30	50	0,13
	33,70	2,60	2,60		0,14
48,30	26,90	2,60	2,30	64	0,19
	33,70	2,60	2,60		0,20
	42,40	2,60	2,60		0,20
60,30	33,70	2,90	2,60	76	0,31
	42,40	2,90	2,60		0,32
	48,30	2,90	2,60		0,33
76,10	42,40	2,90	2,60	90	0,47
	48,30	2,90	2,60		0,48
	60,30	2,90	2,90		0,49
88,90	48,30	3,20	2,60	90	0,61
	60,30	3,20	2,90		0,62
	76,10	2,90	2,90		0,63
101,60	88,90	3,60	3,20	100	0,88
108,00	60,30	3,60	2,90	100	0,90
	76,10	3,60	2,90		0,90
	88,90	3,60	3,20		0,90
114,30	60,30	3,60	2,90	100	0,98
	76,10	3,60	2,90		1,00
	88,90	3,60	3,20		1,00
133,00	88,90	4,00	3,20	127	1,50
	108,00	4,00	3,60		1,50
	114,30	4,00	3,60		1,50

Ø D1 EST.MM Ø D1 OUTS. DIAM MM	Ø D2 EST.MM Ø D2 OUTS. DIAM MM	SPESSORE THICKNESS 1	SPESSORE THICKNESS 2	H	PESO TEORICO THEORETICAL WEIGHT KG
139,70	76,10	4,00	2,90	127	1,70
	88,90	4,00	3,20		1,74
	108,00	4,00	3,60		1,74
	114,30	4,00	3,60		1,76
159,00	108,00	4,50	3,60	140	2,30
	114,30	4,50	3,60		2,30
	133,00	4,50	4,00		2,30
	139,70	4,50	4,00		2,30
168,30	88,90	4,50	3,20	140	2,70
	114,30	4,50	3,60		2,82
	139,70	4,50	4,00		2,94
219,00	114,30	6,30	3,60	152	5,03
	139,70	6,30	4,00		5,12
	159,00	6,30	4,50		5,18
	168,30	6,30	4,50		5,18
273,00	168,30	6,30	4,50	178	7,40
	219,10	6,30	6,30		7,55
323,90	219,10	7,10	6,30	203	11,50
	273,00	7,10	6,30		11,90
355,60	273,00	8,00	6,30	330	23,00
	323,90	8,00	7,10		23,50
406,40	273,00	8,80	6,30	355	31,40
	323,90	8,80	7,10		32,20

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



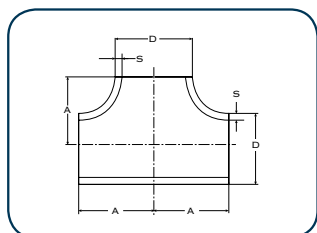
TEE UGUALI E RIDOTTI SENZA SALDATURA

EN 10253-2

SEAMLESS EQUAL AND REDUCING TEE

EN 10253-2

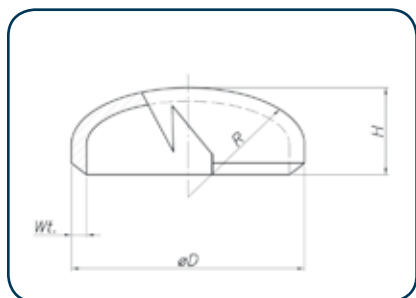
CARBON STEEL



Ø D1 EST.MM Ø D1 OUTS. DIAM MM	Ø D2 EST.MM Ø D2 OUTS. DIAM MM	SPESSORE THICKNESS 2	SPESSORE THICKNESS 2	A	A+A	PESO TEORICO THEORETICAL WEIGHT KG
21,30	21,30	2,00	2,00	50	50	0,09
26,90	26,90	2,30	2,30	29	58	0,15
33,70	33,70	2,60	2,60	38	76	0,25
	21,30	2,60	2,00			0,25
	26,90	2,60	2,30			0,25
42,40	42,40	2,60	2,60	48	96	0,47
	26,90	2,60	2,30			0,47
	33,70	2,60	2,60			0,47
48,30	48,30	2,60	2,60	57	114	0,68
	26,90	2,60	2,30			0,68
	33,70	2,60	2,60			0,68
	42,40	2,60	2,60			0,68
60,30	60,30	2,90	2,90	64	128	1,10
	33,70	2,90	2,60			1,10
	42,40	2,90	2,60			1,10
	48,30	2,90	2,60			1,10
76,10	76,10	2,90	2,90	76	152	1,50
	42,40	2,90	2,60			1,50
	48,30	2,90	2,60			1,50
	60,30	2,90	2,90			1,50
88,90	88,90	3,20	3,20	86	172	2,20
	48,30	3,20	2,60			2,20
	60,30	3,20	2,90			2,20
	76,10	3,20	2,90			2,20
114,30	114,30	3,60	3,60	105	210	4,30
	60,30	3,60	2,90			4,30
	76,10	3,60	2,90			4,30
	88,90	3,60	3,20			4,30

Ø D1 EST.MM Ø D1 OUTS. DIAM MM	Ø D2 EST.MM Ø D2 OUTS. DIAM MM	SPESSORE THICKNESS 2	SPESSORE THICKNESS 2	A	A+A	PESO TEORICO THEORETICAL WEIGHT KG
139,70	139,70	4,00	4,00	124	248	6,20
	76,10	4,00	2,90			6,20
	88,90	4,00	3,20			6,20
	114,30	4,00	3,60			6,20
168,30	168,30	4,50	4,50	143	286	9,00
	88,90	4,50	3,20			8,80
	114,30	4,50	3,60			8,80
	139,70	4,50	4,00			9,00
219,10	219,10	6,30	6,30	178	356	19,70
	88,90	6,30	3,20			19,70
	114,30	6,30	3,60			19,70
	139,70	6,30	4,00			19,70
	168,30	6,30	4,50			19,70
	219,10	6,30	6,30			19,70
273,00	273,00	6,30	6,30	216	432	26,20
	168,30	6,30	4,50			26,20
	219,10	6,30	6,30			26,20
323,90	323,90	7,10	4,50	254	508	49,00
	219,10	7,10	6,30			47,00
	273,00	7,10	6,30			47,00
355,60	355,60	8,00	8,00	279	558	68,00

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FONDI
EN 10253-1
S235

DISHED ENDS
EN 10253-1
S235

CARBON STEEL

O D1 EST.MM O D1 OUTS.DIAM MM	SPESSORE THICKNESS	H	PESO TEORICO THEORETICAL WEIGHT KG
26,90	2,30	11	0,02
33,70	2,60	11	0,03
42,40	2,60	11	0,05
48,30	2,60	12	0,06
60,30	2,90	17	0,10
76,10	2,90	19	0,16
88,90	3,20	23	0,22
101,60	3,60	25	0,34
108,00	3,60	26	0,39
114,30	3,60	26	0,39
133,00	4,00	32	0,56
139,70	4,00	36	0,63
159,00	4,50	43	0,93
168,30	4,50	45	1,06
193,70	5,40	56	1,87
219,10	6,30	69	2,82
244,50	6,30	75	3,41
273,00	6,30	90	5,00
323,90	7,10	99	6,32
355,60	8,00	106	10,14
406,40	8,80	125	10,94

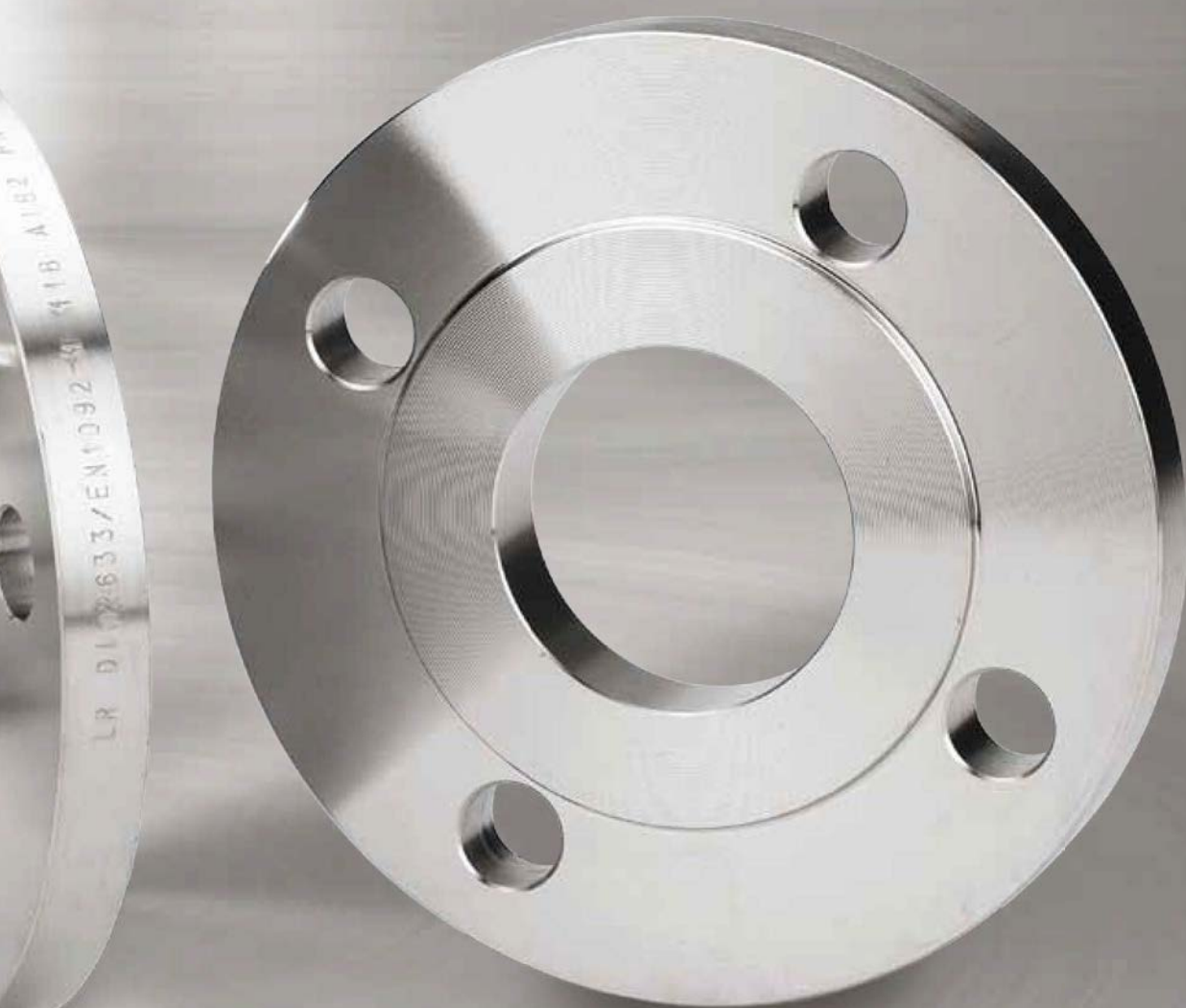
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



EN 1092-1



Stainless steel and carbon steel



FLANGE FORGIATE E CARTELLE | FORGED FLANGES AND COLLARS



INFORMAZIONI GENERALI / GENERAL INFORMATION

**LE FLANGE DELLA SOCIETÀ SENECA SONO FORNITE IN ACCORDO ALLE SEGUENTI NORME:
SENECA'S FLANGES ARE PROVIDED IN ACCORDING WITH THE FOLLOWINGS STANDARDS**

Norma del raccordo <i>Fitting standard</i>	Descrizione <i>Description</i>	Grado di acciaio <i>Steel grade</i>	AISI	EN	Tipologia di raccordi <i>Fittings types</i>	Note <i>Notes</i>
EN-1092-1	Flange circolari per tubazioni, valvole, raccordi e accessori, designate PN <i>Circular flanges for pipes, valves, fittings and accessories, PN designated</i>	X5CrNi18-10 X2CrNi18-9 X5CrNiMo17-12-2 X2CrNiMo17-12-2 P355NH S235JR P245GH P280GH	304 304L 316 316L	1.4301 1.4307 1.4401 1.4404 1.0565 1.0038 1.0352 1.0426	Flange piane e cieche Flange a collarino <i>Plate and blind flanges Welding-neck flanges</i>	Conforme alla PED <i>According to PED</i>

**LE TABELLE RIPORTATE IN SEGUITO PERMETTONO UN CONFRONTO TRA I DIFFERENTI GRADI DI ACCIAIO SECONDO LA COMPOSIZIONE CHIMICA E LE PROPRIETÀ MECCANICHE:
TABLES SHOWN BELOW ALLOW A COMPARISON BETWEEN THE DIFFERENT STEEL GRADES ACCORDING TO THE CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES:**

Designazione dell'acciaio <i>Steel designation</i>		Composizione chimica (analisi di colata) % <i>Chemical composition (heat analysis)</i>									
Designazione simbolica <i>Symbolic designation</i>	Designazione numerica <i>Numerical designation</i>	C	Si max.	Mn max.	P max.	S max.	Cr	Mo	Ni	N	Altri
X2 CrNi18-9	1.4307	≤0,030	1,00	2,00	0,045	0,015	da 17,50 a 19,50	-	da 8,00 a 10,00	0,11 max.	-
X5 CrNi18-10	1.4301	≤0,07	1,00	2,00	0,045	0,015	da 17,00 a 19,50		da 8,00 a 10,50	0,11 max.	-
X5 CrNiMo17-12-2	1.4401	≤0,07	1,00	2,00	0,045	0,015	da 16,50 a 18,50	da 2,00 a 2,50	da 10,00 a 13,00	0,11 max.	-
X2 CrNiMo17-12-2	1.4404	≤0,030	1,00	2,00	0,045	0,015	da 16,50 a 18,50	da 2,00 a 2,50	da 10,00 a 13,00	0,11 max.	-

Designazione dell'acciaio <i>Steel designation</i>		Caratteristiche meccaniche a temperatura ambiente <i>Chemical composition</i>							
Designazione simbolica <i>Symbolic designation</i>	Designazione numerica <i>Numerical designation</i>	Snervamento <i>Yield point</i>		Rottura <i>Tensile strenght</i>	Allungamento dopo la rottura <i>Elongation after tensile strenght A</i>		Resistenza <i>Impact test</i>		
		0,2% <i>R_{p0.2}</i>	1,0% <i>R_{p1.0}</i>		I	tr, t	20°C		196°C
		min. <i>N/mm²</i>	min. <i>N/mm²</i>				(I)	(tr)	(tr)
X2 CrNi18-9	1.4307	200	230	da 500 a 700	45	35	100	60	60
X5 CrNi18-10	1.4301	200	230	da 500 a 700	45	35	100	60	60
X5 CrNiMo17-12-2	1.4401	205	240	da 510 a 710	45	35	100	60	60
X2 CrNiMo17-12-2	1.4404	190	225	da 490 a 690	45	35	100	60	60



VALORI MINIMI UNITARI DI SNERVAMENTO 0,2% ($R_{p0,2}$) COME DA TABELLA
MINIMUM UNIT VALUES OF YELD POINT AS SHOWN IN THE TABLES

Designazione dell'acciaio Steel designation		$R_{p0,2}$ min., in N/mm ² , ad una temperatura di: / at a temperature of:
Designazione simbolica Symbolic designation	Designazione numerica Numerical designation	100°C
X2 CrNi18-9	1.4307	147
X5 CrNi18-10	1.4301	157
X2 CrNiMo17-12-2	1.4404	166
X5 CrNiMo17-12-2	1.4401	177

CHEMICAL COMPOSITION % OF GRADE P355NH (1.0565)

According EN 1022-4 chemical composition: C < 0.2; 0.1 < Si < 0.5; 0.9 < Mn < 1.65; Ni < 0.3; 0.02 < Al < 0.06														
C	Si	Mn	Ni	P	S	Cr	Mo	V	N	Nb	Ti	Al	Cu	-
max 0.18	max 0.5	1.1 - 1.7	max 0.5	max 0.025	max 0.015	max 0.3	max 0.08	max 0.1	max 0.012	max 0.05	max 0.03	max 0.02	max 0.3	Nb+Ti+V< 0.12

CHEMICAL COMPOSITION % OF GRADE P355NH (1.0565)

Nominalthickness (mm):	to 60	60-100	100-150	150-250		
Rm - Tensile strength (MPa) (+N)	490-630	470-610	460-600	450-590		
Nominalthickness (mm):	to 16	16-40	40-60	60-100	100-150	150-250
ReH - Minimum yield strength (MPa) (+N)	355	345	335	315	305	295
KV - Impact energy (J) transverse, (+N)	-20° 27-30	0° 35-40	+20° 39-50			
KV - Impact energy (J) longitud	-20° 40-45	0° 47-65	+20° 55-75			
Nominalthickness (mm):	to 60	60-250				
A - Min. elongation at fracture (%) (+N)	22	21				

CHEMICAL COMPOSITION % OF GRADE S235JR (1.0038)

Nominal thickness = < 40(mm) C max = 0.17 Nominal thickness = < 40(mm) CEV max = 0.35						
C	Mn	P	S	N	Cu	CEV
max 0.2	max 1.4	max 0.04	max 0.04	max 0.012	max 0.55	max 0.38



MECHANICAL PROPERTIES OF GRADE S235JR (1.0038)

Nominalthickness (mm):	to 3		3-100		100-150		150-250		
Rm - Tensile strength (MPa) Flat and long products	360-510		360-510		350-500		340-490		
Nominalthickness (mm):	to 16	16-40	40-63	63-80	80-100	100-150	150-200	200-250	
ReH - Minimum yield strength (MPa) Flat and long products	235	225	215	215	215	195	185	175	
KV - Impact energy (J) longitud	-20° 27			0° 27		+20° 27			
Nominalthickness (mm):	to 1		1-1.5		1.5-2		2-2.5		2.5-3
A - Min. elongation Lo = 80 mm (%) parallel	17		18		19		20		21
Nominalthickness (mm):	3-40		40-63		63-100		100-150		150-250
A - Min. elongation Lo = 5,65 √ So (%) parallel	26		25		24		22		21

PROPERTIES OF GRADE S235JR (1.0038)

Weldability: This steel grade is generally suitable to welding

CHEMICAL COMPOSITION % OF GRADE P245GH (1.0352)

C	Si	Mn	P	S
0.08-0.2	max 0.4	0.5 - 1.3	max 0.025	max 0.015

MECHANICAL PROPERTIES OF GRADE P245GH (1.0352)

Rm - Tensile strength (MPa)	410-530
ReH - Minimum yield strength (MPa)	220 - 245
KV - Impact energy (J) longitud	+20° 32
KV - Impact energy (J) transverse	+20° 27
A - Min. elongation at fracture (%) longitud	25
A - Min. elongation at fracture (%) transverse	23

CHEMICAL COMPOSITION % OF GRADE P280GH (1.0426)

C	Si	Mn	P	S
0.08-0.2	max 0.4	0.9 - 1.5	max 0.025	max 0.015



MECHANICAL PROPERTIES OF GRADE P280GH (1.0426)

Rm - Tensile strength (MPa)	460-580	
Nominal thickness (mm):	to 35	35-160
ReH - Minimum yield strength (MPa)	280	255
KV - Impact energy (J) longitud	+20° 48	
KV - Impact energy (J) transverse	+20° 27	
A - Min. elongation at fracture (%) longitud	23	
A - Min. elongation at fracture (%) transverse	21	

TOLLERANZE / TOLERANCES

Dimensione <i>Dimension</i>	Tipo flangia <i>Flange type</i>	Misura <i>Size</i>	Tolleranze / <i>Tolerance</i> <i>mm</i>	
Diametro esterno <i>Outside diameter of neck</i> <i>A D</i>	11	≤ DN 125	+ 3,0 0	
		> DN 125 ≤ DN 1200	+ 4,5 0	
		> DN 1200	+ 6,0 0	
	37	≤ DN 150	± 0,75 % ^a , max. ± 0,3 mm	
		> DN 150	± 1 % ^a , max. ± 3,0 mm	
Diametro del foro <i>Bore diameter</i> <i>B₁, B₂, B₃</i>	01, 02	≤ DN 100	+ 0,5 0	
		> DN 100 ≤ DN 400	+ 1,0 0	
		> DN 400 ≤ DN 600	+ 1,5 0	
		> DN 600	+ 3,0 0	
Spessore della parete <i>Wall thickness</i> <i>S^c</i>	11		<i>Machined neck (both faces)</i>	<i>Neck one face machined or un- machined</i>
		≤ DN 100	+ 1,0 0	+ 2,0 0
		> DN 100 ≤ DN 400	+ 1,5 0	+ 2,5 0
		> DN 400	+ 2,0 0	+ 3,5 0
	37	≤ DN 600	- 12,5 % a + 15%	
		> DN 600	- 0,5 mm a + 15%	
Diametro esterno <i>Outside diameter</i> <i>D</i>	Tutti gli altri tipi <i>All other types</i>	≤ DN 150	± 2,0	
		> DN 150 ≤ DN 500	± 3,0	
		> DN 500 ≤ DN 1200	± 5,0	
		> DN 1200 ≤ DN 1800	± 7,0	
		> DN 1800	± 10,0	



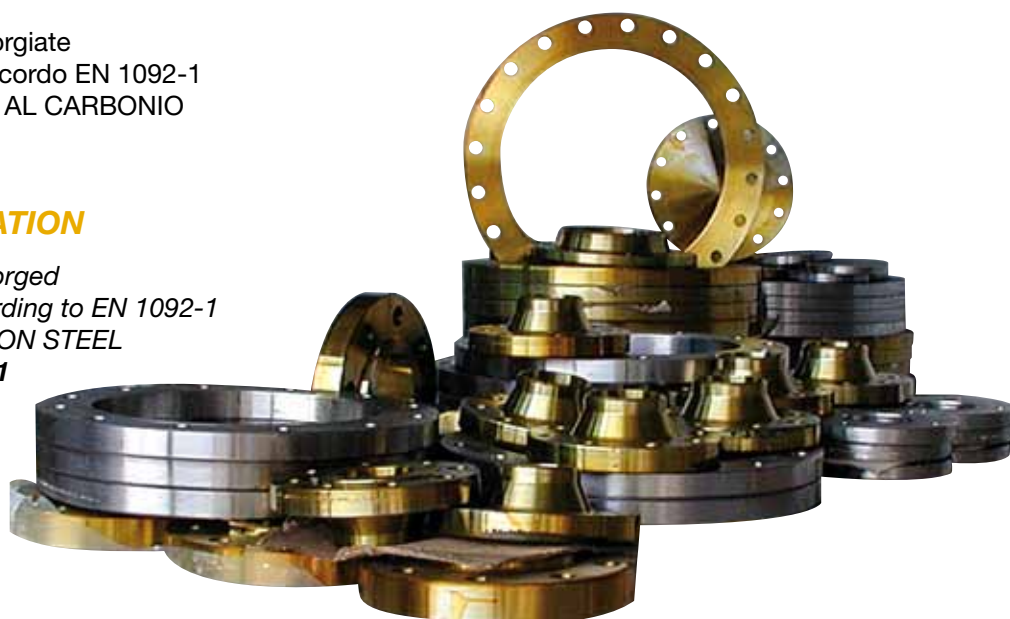
Dimensione Dimension	Tipo flangia Flange type	Misura Size	Tolleranze / Tolerance mm
Diametro del cerchio dei bulloni Diameter of bolt circle K	Tutti i tipi All types	Bolt size M10 to M24	± 1,0
		Bolt size M27 to M45	± 1,5
		Bolt size > M45	± 2,0
Interasse dei fori per bulloni adiacenti Centre-to-centre of adjacent bolt holes	Tutti i tipi All types	Bolt size M10 to M24	± 1,0
		Bolt size M27 to M45	± 1,5
		Bolt size > M45	± 2,0
Lunghezza attraverso il centro Length through hub H ₁ , H ₂ , H ₃ , H ₄ , H ₅	11, 37	≤ DN 80	± 1,5
		> DN 80 ≤ DN 250	± 2,0
		> DN 250	± 3,0
Diametro del colletto Neck diameter N'	11 Lavorato sulla superficie di tenuta Machined bearing surface	N1 ≤ 120	0 - 1,0
		N1 > 120 ≤ 400	0 - 1,2
		N1 > 400 ≤ 1000	+ 1,6 0
		N1 > 1000 ≤ 2000	+ 2,5 0
		N1 > 2000	+ 4,0 0
	11 Non lavorato sulla superficie di tenuta Un-machined bearing surface	N1 ≤ 120	0 - 1,0
		N1 > 120 ≤ 400	+ 0 - 2,0
		N1 > 400 ≤ 1000	+ 4,0 0
		N1 > 1000 ≤ 2000	+ 6,0 0
		N1 > 2000	+ 8,0 0

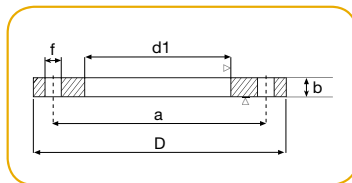
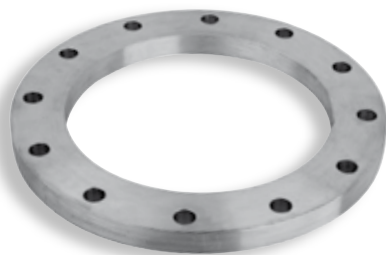
CARATTERISTICHE TECNICHE

Metodo di fabbricazione: forgiate
Dimensioni-marcatura-tolleranze in accordo EN 1092-1
ACCIAIO INOSSIDABILE E ACCIAIO AL CARBONIO
Certificati EN 10204/3.1

TECHNICAL INFORMATION

Method of manufacture: forged
Dimensions-marketing-tolerances according to EN 1092-1
STAINLESS STEEL AND CARBON STEEL
Certificates EN 10204/3.1





FLANGE PIANE DA SALDARE FORGIATE

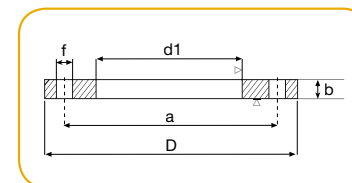
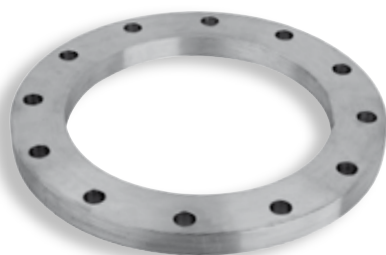
EN 1092-1 TIPO 01/A PN 6

FORGED WELDING PLATE FLANGES

EN 1092-1 TYPE 01/A PN 6

STAINLESS STEEL AND CARBON STEEL

DN	D	d ₁	b	Fori			Peso Kg Weight Kg
				a	f	N° fori / Holes	
15	80	22,0	12	55	11	4	0,40
20	90	27,5	14	65	11	4	0,60
25	100	34,5	14	75	11	4	0,80
32	120	43,5	16	90	14	4	1,20
40	130	49,5	16	100	14	4	1,40
50	140	61,5	16	110	14	4	1,50
65	160	77,5	16	130	14	4	1,80
80	190	90,5	18	150	18	4	2,80
100	210	116,0	18	170	18	4	3,20
125	240	141,5	20	200	18	8	4,30
150	265	170,5	20	225	18	8	5,40
200	320	221,5	22	280	18	8	7,20
250	375	276,5	24	335	18	12	10,00
300	440	327,5	24	395	22	12	12,40
350	490	359,5	26	445	22	12	17,50
400	540	411,0	28	495	22	16	21,00
450	595	462,0	30	550	22	16	27,00
500	645	513,5	30	600	22	20	31,00
600	755	616,5	32	705	26	20	39,00
700	860	-	40	810	26	24	49,00
800	975	-	44	920	30	24	64,00
900	1.075	-	48	1.020	30	24	76,00
1.000	1.175	-	52	1.120	30	28	84,00



FLANGE PIANE DA SALDARE FORGIATE

EN 1092-1 TIPO 01/A PN 10

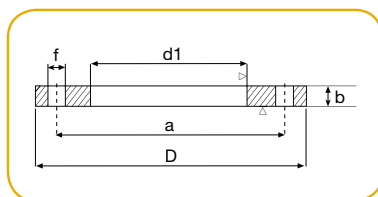
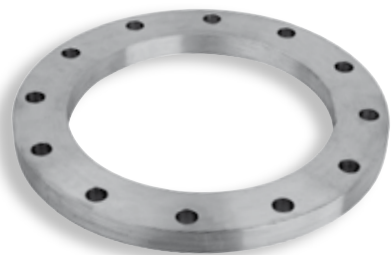
FORGED WELDING PLATE FLANGES

EN 1092-1 TYPE 01/A PN 10

STAINLESS STEEL AND CARBON STEEL

DN	D	d ₁	b	Fori			Peso Kg Weight Kg
				a	f	N° fori / Holes	
Da DN15 a DN50 dimensioni identiche con PN40 / From DN15 to DN50 dimensions identical with PN40							
Da DN65 a DN150 dimensioni identiche con PN16 / From DN65 to DN150 dimensions identical with PN16							
200	340	221,5	24	295	22	8	10,30
250	395	276,5	26	350	22	12	14,00
300	445	327,5	26	400	22	12	15,50
350	505	359,5	30	460	22	16	23,00
400	565	411,0	32	515	26	16	29,00
450	615	462,0	36	565	26	20	35,00
500	670	513,5	38	620	26	20	42,00
600	780	616,5	42	725	30	20	54,00
700	895	-	50	840	30	24	66,00
800	1.015	-	56	950	33	24	90,00
900	1.115	-	62	1.050	33	28	103,00
1.000	1.230	-	70	1.160	36	28	131,00

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FLANGE PIANE DA SALDARE FORGIATE

EN 1092-1 TIPO 01/A PN 16

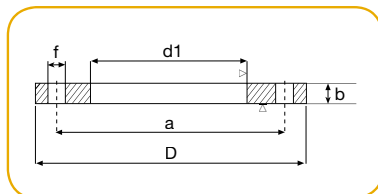
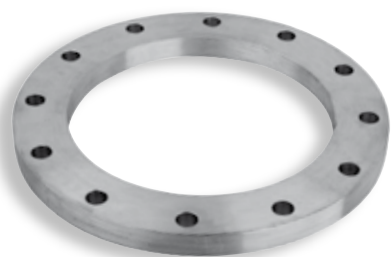
FORGED WELDING PLATE FLANGES

EN 1092-1 TYPE 01/A PN 16

STAINLESS STEEL AND CARBON STEEL

DN	D	d _i	b	Forl			Peso Kg Weight Kg
				a	f	N° forl / Holes	
Da DN15 a DN50 dimensioni identiche con PN40 / From DN15 to DN50 dimensions identical with PN40							
65	185	77,5	20	145	18	8(4)*	3,10
80	200	90,5	20	160	18	8	3,80
100	220	116,0	22	180	18	8	4,80
125	250	141,5	22	210	18	8	6,40
150	285	170,5	24	240	22	8	8,00
200	340	221,5	26	295	22	12	10,30
250	405	276,5	29	355	26	12	17,50
300	460	327,5	32	410	26	12	20,00
350	520	359,5	35	470	26	16	30,50
400	580	411,0	38	525	30	16	37,50
450	640	462,0	42	585	30	20	43,00
500	715	513,5	46	650	33	20	52,00
600	840	616,5	55	770	36	20	72,00
700	910	-	63	840	36	24	90,00
800	1.025	-	74	950	39	24	117,00
900	1.125	-	82	1.050	39	28	130,00
1.000	1.255	-	90	1.170	42	28	165,00

*DISPONIBILI CON 4 FORI / ON STOCK WITH 4 HOLES



FLANGE PIANE DA SALDARE FORGIATE

EN 1092-1 TIPO 01/A PN 40

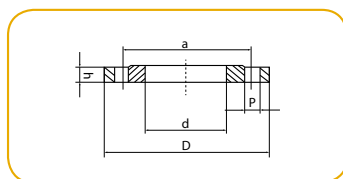
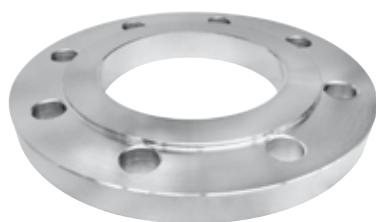
FORGED WELDING PLATE FLANGES

EN 1092-1 TYPE 01/A PN 40

STAINLESS STEEL AND CARBON STEEL

DN	D	d _i	b	Fori		N° fori / Holes	Peso Kg Weight Kg
				a	f		
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	20	125	18	4	2,78
65	185	77,5	22	145	18	8	3,80
80	200	90,5	24	160	18	8	4,70
100	235	116,0	26	190	22	8	6,33
125	270	141,5	28	220	26	8	8,53
150	300	170,5	30	250	26	8	10,90
200	375	221,5	36	320	30	12	18,00
250	450	276,5	42	385	33	12	31,80
300	515	327,5	52	450	33	16	41,90
350	580	359,5	58	510	36	16	62,40
400	660	411,0	65	585	39	16	90,30

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE PIANE CON GRADINO DA SALDARE FORGIATE

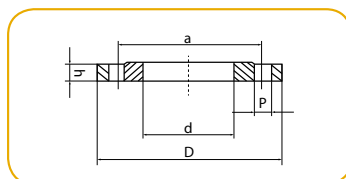
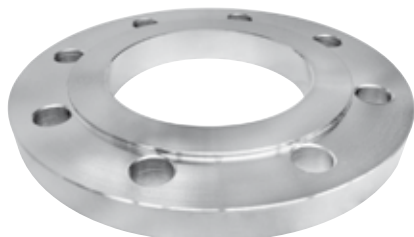
EN 1092-1 TIPO 01/B PN10

FORGED WELDING RAISED FACE FLANGES

EN 1092-1 TYPE 01/B PN10

STAINLESS STEEL AND CARBON STEEL

DN	D	d ₁	h	Fori			Peso Kg Weight Kg
				a	f	N° fori / Holes	
Da DN15 a DN50 dimensioni identiche con PN40 / From DN15 to DN50 dimensions identical with PN40							
Da DN65 a DN150 dimensioni identiche con PN16 / From DN65 to DN150 dimensions identical with PN16							
200	340	221,5	24	295	22	8	10,30
250	395	276,5	26	350	22	12	14,00
300	445	327,5	26	400	22	12	15,50
350	505	359,5	30	460	22	16	23,00
400	565	411,0	32	515	26	16	29,00
450	615	462,0	36	565	26	20	35,00
500	670	513,5	38	620	26	20	42,00
600	780	616,5	42	725	30	20	54,00
700	895	-	-	840	30	24	66,00
800	1.015	-	-	950	33	24	90,00
900	1.115	-	-	1.050	33	28	103,00
1.000	1.230	-	-	1.160	36	28	131,00



FLANGE PIANE CON GRADINO DA SALDARE FORGIATE

EN 1092-1 TIPO 01/B PN16

FORGED WELDING RAISED FACE FLANGES

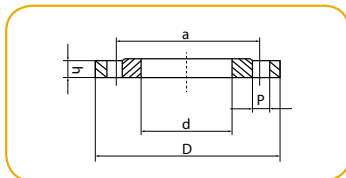
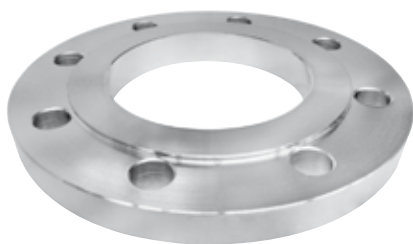
EN 1092-1 TYPE 01/B PN16

STAINLESS STEEL AND CARBON STEEL

DN	D	d ₁	h	Fori			Peso Kg Weight Kg
				a	f	N° fori / Holes	
Da DN15 a DN50 dimensioni identiche con PN40 / From DN15 to DN50 dimensions identical with PN40							
65	185	77,5	20	145	18	8(4)*	3,10
80	200	90,5	20	160	18	8	3,80
100	220	116,0	22	180	18	8	4,80
125	250	141,5	22	210	18	8	6,40
150	285	170,5	24	240	22	8	8,00
200	340	221,5	26	295	22	12	10,30
250	405	276,5	29	355	26	12	17,50
300	460	327,5	32	410	26	12	20,00
350	520	359,5	35	470	26	16	30,50
400	580	411,0	38	525	30	16	37,50
450	640	462,0	42	585	30	20	43,00
500	715	513,5	46	650	33	20	52,00
600	840	616,5	55	770	36	20	72,00
700	910	-	63	840	36	24	90,00
800	1.025	-	74	950	39	24	117,00
900	1.125	-	82	1.050	39	28	130,00
1.000	1.255	-	90	1.170	42	28	165,00

*DISPONIBILI CON 4 FORI / ON STOCK WITH 4 HOLES

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE PIANE CON GRADINO DA SALDARE FORGIATE

EN 1092-1 TIPO 01/B PN40

FORGED WELDING RAISED FACE FLANGES

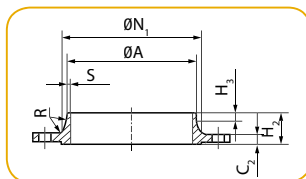
EN 1092-1 TYPE 01/B PN40

STAINLESS STEEL AND CARBON STEEL

DN	D	d _i	h	Fori			Peso Kg Weight Kg
				a	f	N° fori / Holes	
15	95	22,0	14	65	14	4	0,68
20	105	27,5	16	75	14	4	0,95
25	115	34,5	16	85	14	4	1,14
32	140	43,5	18	100	18	4	1,87
40	150	49,5	18	110	18	4	2,13
50	165	61,5	20	125	18	4	2,78
65	185	77,5	22	145	18	8	3,80
80	200	90,5	24	160	18	8	4,70
100	235	116,0	26	190	22	8	6,33
125	270	141,5	28	220	26	8	8,53
150	300	170,5	30	250	26	8	10,90
200	375	221,5	36	320	30	12	18,00
250	450	276,5	42	385	33	12	31,80
300	515	327,5	52	450	33	16	41,90
350	580	359,5	58	510	36	16	64,40
400	660	411,0	65	585	39	16	90,30



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE FORGIATE CON COLLARE

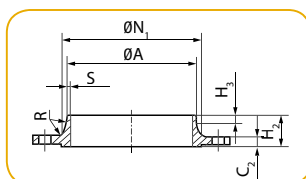
EN 1092-1 TIPO 11/B PN10 (EX DIN 2632)

FORGED WELDING NECK FLANGES

EN 1092-1 TYPE 11/B PN10 (EX DIN 2632)

STAINLESS STEEL AND CARBON STEEL

DN	A	C2	R	H2	N1	H3	S	N. Fori / Holes	Peso Kg Weight Kg
Da DN15 a DN40 dimensioni identiche con PN40 - From DN15 to DN40 dimensions identical with PN40 Da DN50 a DN150 dimensioni identiche con PN16 - From DN50 to DN150 dimensions identical with PN16									
200	219.1	24	10	62	234	16	5.9	8	11.3
250	273.0	26	12	68	292	16	6.3	12	14.7
300	323.9	26	12	68	342	16	7.1	12	17.4



FLANGE FORGIATE CON COLLARE

EN 1092-1 TIPO 11/B PN16 (EX DIN 2633)

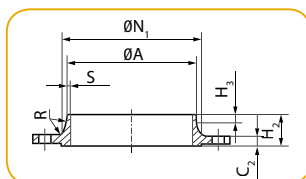
FORGED WELDING NECK FLANGES

EN 1092-1 TYPE 11/B PN16 (EX DIN 2633)

STAINLESS STEEL AND CARBON STEEL

DN	A	C2	R	H2	N1	H3	S	N. Fori / Holes	Peso Kg Weight Kg
Da DN15 a DN40 dimensioni identiche con PN40 - From DN15 to DN40 dimensions identical with PN40									
50	60.3	18	6	45	74	8	2.9	4	2.53
65	76.1	18	6	45	92	10	2.9	8(4)*	3.06
80	88.9	20	6	50	105	10	3.2	8	3.70
100	114.3	20	8	52	131	12	3.6	8	4.62
125	139.7	22	8	55	156	12	4.0	8	6.30
150	168.3	22	10	55	184	12	4.5	8	7.75
200	219.1	24	10	62	235	16	6.3	12	11.00
250	273.0	26	12	70	292	16	6.3	12	15.60
300	323.9	28	12	78	344	16	7.1	12	22.00

*DISPONIBILI CON 4 FORI / ON STOCK WITH 4 HOLES



FLANGE FORGIATE CON COLLARE

EN 1092-1 TIPO 11/B PN40 (EX DIN 2635)

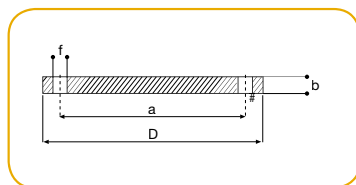
FORGED WELDING NECK FLANGES

EN 1092-1 TYPE 11/B PN40 (EX DIN 2635)

STAINLESS STEEL AND CARBON STEEL

DN	A	C2	R	H2	N1	H3	S	N. Fori / Holes	Peso Kg Weight Kg
15	21.3	16	4	38	32	6	2.0	4	0.75
20	26.9	18	4	40	40	6	2.3	4	1.06
25	33.7	18	4	40	46	6	2.6	4	1.29
32	42.4	18	6	42	56	6	2.6	4	1.89
40	48.3	18	6	45	64	7	2.6	4	2.33
50	60.3	20	6	48	75	8	2.9	4	2.82
65	76.1	22	6	52	90	10	2.9	8	3.74
80	88.9	24	8	58	105	12	3.2	8	4.75
100	114.3	24	8	65	134	12	3.6	8	6.52
125	139.7	26	8	68	162	12	4.0	8	9.07
150	168.3	28	10	75	192	12	4.5	8	11.80
200	219.1	34	10	88	244	16	6.3	12	21.50

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE CIECHE FORGIATE

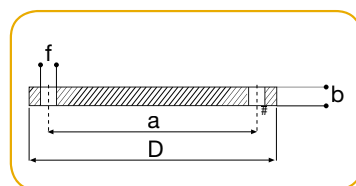
EN 1092-1 TIPO 05/A PN 10

FORGED BLIND FLANGES

EN 1092-1 TYPE 05/A PN 10

STAINLESS STEEL AND CARBON STEEL

DN	D	b	Fori			Peso Kg Weight Kg
			a	f	N° fori / Holes	
Da DN15 a DN40 dimensioni identiche con PN40 / From DN15 to DN40 dimensions identical with PN40						
Da DN50 a DN150 dimensioni identiche con PN16 / From DN50 to DN150 dimensions identical with PN16						
200	340	24	295	22	12	16,50
250	395	26	350	22	12	24,10
300	445	26	400	22	12	30,80
350	505	26	460	22	16	39,60
400	565	26	515	26	16	49,60
450	615	28	565	26	20	58,60
500	670	28	620	26	20	75,30



FLANGE CIECHE FORGIATE

EN 1092-1 TIPO 05/A PN 16

FORGED BLIND FLANGES

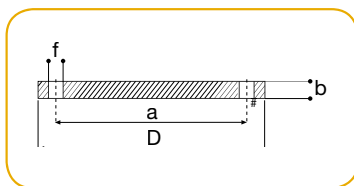
EN 1092-1 TYPE 05/A PN 16

STAINLESS STEEL AND CARBON STEEL

DN	D	b	Fori			Peso Kg Weight Kg
			a	f	N° fori / Holes	
Da DN15 a DN40 dimensioni identiche con PN40 / From DN15 to DN40 dimensions identical with PN40						
50	165	18	125	18	4	2,87
65	185	18	145	18	8 (4)*	3,65
80	200	20	160	18	8	4,61
100	220	20	180	18	8	5,65
125	250	22	210	18	8	8,12
150	285	22	240	22	8	10,50
200	340	24	295	22	8	16,50
250	405	26	355	26	12	25,10
300	460	28	410	26	12	35,20
350	520	30	470	26	16	48,20
400	580	32	525	30	16	63,50
450	640	40	585	30	20	77,20
500	715	44	650	33	20	102,00

*DISPONIBILI CON 4 FORI
ON STOCK WITH 4 HOLES

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE CIECHE FORGIATE

EN 1092-1 TIPO 05/A PN 40

FORGED BLIND FLANGES

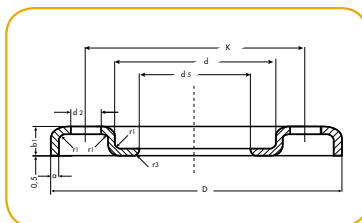
EN 1092-1 TYPE 05/A PN 40

STAINLESS STEEL AND CARBON STEEL

DN	D	b	Fori			Peso Kg Weight Kg
			a	f	N° fori / Holes	
15	95	16	65	14	4	0,71
20	105	18	75	14	4	1,01
25	115	18	85	14	4	1,22
32	140	18	100	18	4	1,80
40	150	18	110	18	4	2,09
50	165	20	125	18	4	3,20
65	185	22	145	18	8	4,30
80	200	24	160	18	8	5,90
100	235	24	190	22	8	7,50
125	270	26	220	26	8	10,80
150	300	28	250	26	8	14,50
200	375	36	320	30	12	20,50
250	450	38	385	33	12	29,50
300	515	42	450	33	16	46,20
350	580	46	510	36	16	59,80
400	660	50	585	39	16	74,20
450	685	57	610	39	20	89,50
500	755	57	670	42	20	123,10



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE STAMPATE LIBERE

EN 1092-1 TIPO 02 PN 10

PRESSED LOOSE FLANGES

EN 1092-1 TYPE 02 PN 10

DN	D	d	d ₅	K	r ₁	r ₃	B ₁	a	fori holes n°	tipo type	d ₂	Peso Weight kg
15	95	38	25	65	3.0	3.0	11.5	3	4	M12	13.5	0.20
20	105	48	30	75	3.0	3.0	14.0	3	4	M12	13.5	0.24
25	115	53	38	85	3.0	3.0	16.0	3	4	M12	13.5	0.26
32	140	68	46	100	3.0	3.5	16.5	3	4	M16	17.5	0.45
40	150	77	54	110	3.0	3.5	18.0	4	4	M16	17.5	0.62
50	165	91	65	125	3.0	4.0	20.0	4	4	M16	17.5	0.80
65	185	108	81	145	4.5	5.0	22.0	5	4	M16	17.5	0.95
80	200	123	94	160	4.5	5.0	23.0	5	8	M16	17.5	1.40
100	220	141	119	180	5.0	5.0	24.0	6	8	M16	17.5	1.60
125	250	168	145	210	4.5	5.0	25.5	6	8	M16	17.5	2.00
150	285	192	173	240	4.5	5.0	27.0	6	8	M20	21.5	3.05
200	340	245	225	295	5.0	5.0	31.0	8	8	M20	21.5	3.65
250	395	295	276	350	5.0	5.0	34.0	8	12	M20	21.5	9.00
300	445	345	326	400	5.0	5.0	38.0	8	12	M20	21.5	11.0

CARATTERISTICHE TECNICHE

Acciaio: AISI 304/1.4301

Finitura delle superfici: decapate e passivate

Marcatura: ad inchiostro riportante marchio del fabbricante

DN - PN - acciaio - numero di colata / lotto

CERTIFICATI: EN 10204/3.1

TECHNICAL INFORMATION

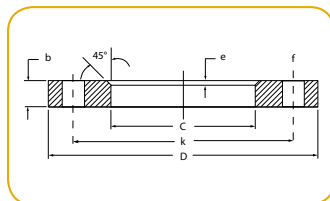
Steel: AISI 304/1.4301

Surfaces finish: pickled and passivated

Marking: ink, reporting producer's name - DN - PN

steel - heat number / lot

CERTIFICATES: EN 10204/3.1



FLANGE LIBERE IN ALLUMINIO

TIPO ISO PN10

CARATTERISTICHE TECNICHE

Dimensioni compatibili con norma EN 1092-1/02 PN 10 (DIN 2642)

Materiale: lega di alluminio EN AB 47000 (EX UNI 7369)

Finitura delle superfici: grezze (verniciatura epossidica a richiesta)

Certificati: EN 10204/2.1

LAP JOINT ALUMINIUM FLANGES

ISO TYPE PN10

TECHNICAL INFORMATION

Dimensions compatible with EN 1092-1/02 PN 10 (DIN 2642)

Material: aluminium alloy EN AB 47000 (EX UNI 7369)

Surfaces finish: blank (epoxidic painting on request)

Certificates: EN 10204/2.1

Diametro Nominale Nominal Pipe Size		Tubo Pipe	Flangia Flange				Fori Holes			Peso Weight
DN	DE		Ø C	Ø D	b	e	Ø K	Ø f	nr.	Kg.
10	3/8"	17,2	19	90	12	4	60	14	4	0,18
15	1/2"	21,3	24	95	12	4	65	14	4	0,19
20	3/4"	26,9	30	105	12	4	75	14	4	0,22
25	1"	33,7	36	115	12	4	85	14	4	0,27
32	1 1/4"	42,2	46	140	16	4	100	18	4	0,53
40	1 1/2"	48,3	54	150	16	4	110	18	4	0,59
50	2"	60,3	65	165	16	4	125	18	4	0,70
65	2 1/2"	76,1	81	185	16	4	145	18	4	0,87
80	3"	88,9	94	200	18	5	160	18	8	1,05
100	4"	114,3	119	220	18	5	180	18	8	1,16
125	5"	139,7	144	250	18	5	210	18	8	1,45
150	6"	168,3	173	285	18	5	240	22	8	1,70
200	8"	219,1	225	340	20	5	295	22	8	2,50
250	10"	273	279	395	22	5	350	22	12	3,25
300	12"	323,9	329	445	22	5	400	22	12	3,80
350	14"	355,6	362	505	22	5	460	22	16	5,25
400	16"	406,4	413	565	25	6	515	25	16	7,20
450	18"	457	466	615	24	6	565	25	20	8,50
500	20"	508	517	670	28	6	620	25	20	9,60
600	24"	610	620	780	30	6	725	30	20	12,75
700	28"	711	721	895	32	6	840	30	24	17,10
800	32"	813	824	1015	36	7	950	33	24	25,60

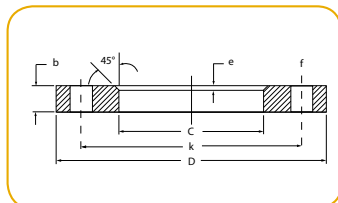
Composizione chimica (valori di norma):

Chemical composition (as a rule values):

Si%	Cu%	Fe%	Mn%	Mg%	Zn%
11,5÷13,5	0,8 max	0,8 max	0,2÷0,4	0,3 max	0,5 max

Ni%	Ti%	Sn%	Pb%	Al%
0,3 max	0,15 max	0,10 max	0,15 max	Il resto (83÷87,5)

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE LIBERE IN ALLUMINIO TIPO METRICO

CARATTERISTICHE TECNICHE

Dimensioni compatibili con norma EN 1092-1/02 PN 10 (DIN 2642)

Materiale: lega di alluminio EN AB 47000 (EX UNI 7369)

Finitura delle superfici: grezze (verniciatura epossidica a richiesta)

Certificati: EN 10204/2.1

LAP JOINT ALUMINIUM FLANGES METRIC TYPE

TECHNICAL INFORMATION

Dimensions compatible with EN 1092-1/02 PN 10 (DIN 2642)

Material: aluminium alloy EN AB 47000 (EX UNI 7369)

Surfaces finish: blank (epoxidic painting on request)

Certificates: EN 10204/2.1

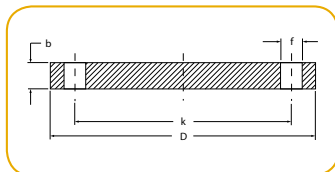
Diametro Nominale Nominal Pipe Size	Tubo Pipe	Flangia Flange				Fori Holes			Peso Weight
DN	DE	Ø C	Ø D	b	e	Ø K	Ø f	nr.	Kg.
10	13-14	19	90	12	4	60	14	4	0,18
15	18-20	24	95	12	4	65	14	4	0,19
20	23-25	30	105	12	4	75	14	4	0,22
25	28-30	34	115	12	4	85	14	4	0,27
32	35-38	40	140	16	4	100	18	4	0,54
40	43-44,5	48	150	16	4	110	18	4	0,61
50	53,56	58	165	16	4	125	18	4	0,73
65	69	73	185	16	4	145	18	4	0,90
80	84-86	90	200	18	5	160	18	8	1,08
100	104-106	110	220	18	5	180	18	8	1,23
125	129-131	135	250	18	5	210	18	8	1,52
150	154-156	160	285	18	5	240	22	8	1,90
200	204-206	212	340	20	5	295	22	8	2,71
250	254-256	262	395	22	5	350	22	12	3,70
300	304-306	312	445	22	5	400	22	12	4,25
350	356	362	505	22	5	460	22	16	2,25
400	406	413	565	25	6	515	25	16	7,20
450	456	466	615	25	6	565	25	20	7,60
500	506	517	670	28	6	620	25	20	9,60
600	606	620	780	30	6	725	30	20	12,75
700	706	721	895	32	6	840	30	24	17,00
800	806	824	1015	36	7	950	33	24	25,60

Composizione chimica (valori di norma):

Chemical composition (as a rule values):

Si%	Cu%	Fe%	Mn%	Mg%	Zn%
11,5÷13,5	0,8 max	0,8 max	0,2÷0,4	0,3 max	0,5 max
Ni%	Ti%	Sn%	Pb%	Al%	
0,3 max	0,15 max	0,10 max	0,15 max	Il resto (83÷87,5)	

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



FLANGE CIECHE IN ALLUMINIO

CARATTERISTICHE TECNICHE

Dimensioni compatibili con norma EN 1092-1/02 PN 10 (DIN 2642)

Materiale: lega di alluminio EN AB 47000 (EX UNI 7369)

Finitura delle superfici: grezze (verniciatura epossidica a richiesta)

Certificati: EN 10204/2.1

BLIND ALUMINIUM FLANGES

TECHNICAL INFORMATION

Dimensions compatible with EN 1092-1/02 PN 10 (DIN 2642)

Material: aluminium alloy EN AB 47000 (EX UNI 7369)

Surfaces finish: blank (epossidic painting on request)

Certificates: EN 10204/2.1

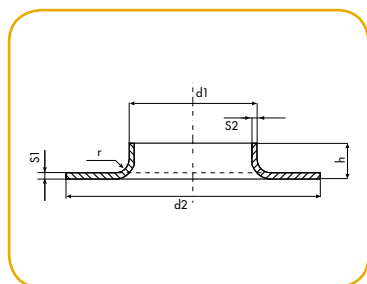
Diametro Nominale Nominal Pipe Size	Flangia Flange		Fori Holes			Peso Weight
DN	Ø D	b	Ø K	Ø f	nr.	Kg.
10	90	12	60	14	4	0,19
15	95	12	65	14	4	0,20
20	105	12	75	14	4	0,27
25	115	12	85	14	4	0,30
32	140	16	100	18	4	0,60
40	150	16	110	18	4	0,70
50	165	16	125	18	4	0,85
65	185	16	145	18	4	1,08
80	200	18	160	18	8	1,35
100	220	18	180	18	8	1,70
125	250	18	210	18	8	1,21
150	285	18	240	22	8	2,90
200	340	20	295	22	8	4,60
250	395	22	350	22	12	6,70
300	445	22	400	22	12	8,60
350	505	22	460	22	16	10,70
400	565	25	515	25	16	14,50
450	615	25	565	25	20	16,00
500	670	28	620	25	20	22,40

Composizione chimica (valori di norma):

Chemical composition (as a rule values):

Si%	Cu%	Fe%	Mn%	Mg%	Zn%
11,5÷13,5	0,8 max	0,8 max	0,2÷0,4	0,3 max	0,5 max
Ni%	Ti%	Sn%	Pb%	Al%	
0,3 max	0,15 max	0,10 max	0,15 max	Il resto (83÷87,5)	

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CARTELLE A SALDARE

CARATTERISTICHE TECNICHE

Dimensioni tipo EN 1092-1-33, con altezza secondo quanto esposto in tabella
Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2

WELDING COLLARS

TECHNICAL INFORMATION

Dimensions type EN 1092-1-33, with length according to the size-table
Marking: Producer's name, heat number, dimensions, steel.

CERTIFICATES EN 10204/2.2

DN	Ø D ₁	D ₂	H*	Peso Weight Kg		
				2,00 mm	3,00 mm	4,00 mm
15	21,3	45	6	0,02	0,03	//
20	26,9	58	8	0,04	0,06	0,08
25	33,7	68	9	0,05	0,07	0,10
32	42,4	78	10	0,07	0,10	0,14
40	48,3	88	10	0,08	0,12	0,16
	54	105	11	0,10	//	//
50	60,3	102	12	0,11	0,16	0,22
65	76,1	122	12	0,14	0,21	0,29
	84	138	13	0,16	//	//
80	88,9	139	12	0,19	0,28	0,37
	101,6	150	12	0,20	0,29	//
	104	158	16	0,28	//	//
100	114,3	158	16	0,21	0,32	0,43
	129	188	15	0,25	//	//
125	139,7	188	16	0,28	0,42	0,56
	154	212	19	0,30	//	//
	156	212	19	//	0,35	//
150	168,3	212	17	0,32	0,48	0,64
	204	268	21	0,35	//	//
	206	268	21	//	0,38	//
200	219,1	270	18	0,47	0,71	0,94
	254	320	24	0,50	//	//
	256	320	24	//	0,54	//
250	273,0	320	18	0,56	0,84	1,11
	304	372	20	0,60	//	//
	306	372	20	//	0,63	//
300	323,9	370	19	0,64	0,96	1,28
350	355,6	430	21	1,01	1,52	2,02
400	406,4	482	21	//	1,77	2,36
450	457,2	532	25	//	2,08	2,78
500	508	585	27	//	2,29	3,05
600	609,6	685	28	//	2,72	3,63

☐ = Disponibile a magazzino/stock

❖ = Disponibile a richiesta

// = Non fornibile

On stock

On request

Not supplied

* Altezza non prevista norma EN 1092-1

* Height not provided by the standard EN 1092-1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



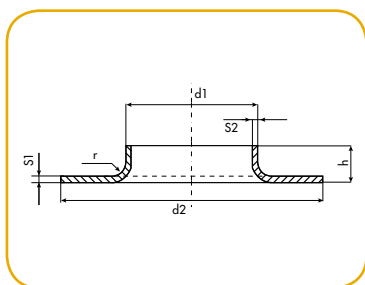
CARTELLE A SALDARE

CARATTERISTICHE TECNICHE

Dimensioni in accordo EN 1092-1 tipo 37, ricavate da tubo saldato o lamiera

Marcatura: marchio produttore, numero colata, dimensioni, tipo di acciaio.

CERTIFICATI EN 10204/2.2



WELDING COLLARS

TECHNICAL INFORMATION

Dimensions according to EN 1092-1 type 37, made from welded pipe or plate

Marking: Producer's name, heat number, dimensions, steel.

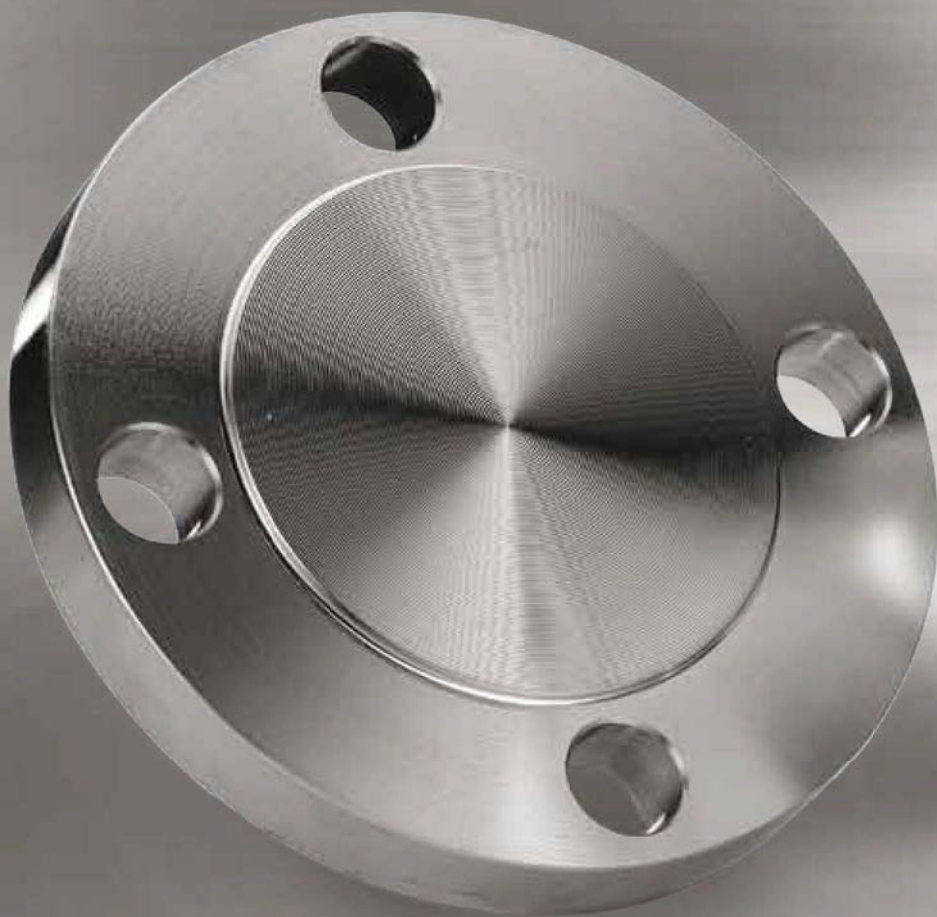
CERTIFICATES EN 10204/2.2

DN	Ø D ₁	D ₂	H	S1	S2	Peso Weight kg
15	21,3	45	7	2,5	2,0	0,03
20	26,9	58	8	3	2	0,06
25	33,7	68	10	3	2	0,08
32	42,4	78	12	3	2	0,10
40	48,3	88	15	3	2	0,13
50	60,3	102	20	4	3	0,18
65	76,1	122	20	4	3	0,24
80	88,9	139	25	4	3	0,31
100	114,3	158	25	4	3,2	0,49
125	139,7	188	25	4	3,2	0,64
150	168,3	212	25	4	3,5	0,80
200	219,1	270	30	5	4,5	1,59



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

ASME B16.5



Stainless steel and carbon steel



FLANGE FORGIATE | *FORGED FLANGES*



INFORMAZIONI GENERALI GENERAL INFORMATION

**LE FLANGE A SALDARE ASME B16.5 SONO FORNITE IN ACCORDO ALLE SEGUENTI NORME:
SENECA'S FLANGES ARE PROVIDED IN ACCORDING TO THE FOLLOWING STANDARDS:**

Norma di raccordo Fitting standard	Norma Standard	Descrizione Description	Grado di acciaio Steel grade	Tipologia di raccordi Fittings types
ASME B16.5	ASTM/ASME A/SA 403 ASTM A182 ASTM A105	Specifiche standard per raccordi di Tubazioni in acciaio inox austenitici <i>Standard Specification for Piping Fittings of stainless steel austenitic</i> Specifiche standard per flange e raccordi forgiati <i>Standard Specification for Forged or Rolled Alloy and Stainless Steel Pipe Flanges, Forged Fittings, and Valves and Parts for High-Temperature</i> Specifiche standard per acciai al carbonio forgiati <i>Standard specification for carbon steel forgings</i>	WP304/304L WP316/316L	Flange forgiate Slip-on Flange forgiate Welding neck Flange forgiate Socket welding Flange forgiate Lap joint Flange forgiate Blind

Le tabelle riportate in seguito permettono un confronto tra i differenti gradi di acciaio secondo la composizione chimica e le proprietà meccaniche:
Tables shown below allow a comparison between the different steel grades according to the chemical composition and mechanical properties:

Grado / Grade		Composizione / Composition %							
Grade WP	C	Mn	P	S	Si	Ni	Cr	Mo	Others
WP304	0.08	2.00	0.045	0.030	1.00	8.0 - 11.0	18.0 - 20.0		
WP304L	0.030	2.00	0.045	0.030	1.00	8.0 - 12.0	18.0 - 20.0		
WP316	0.08	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
WP316L	0.030	2.00	0.045	0.030	1.00	10.0 - 14.0	16.0 - 18.0	2.00 - 3.00	
	0.35 max	0.60 - 1.05	0.035 max	0.040 max	0.10 - 0.35	0.40 max	0.30 max	0.12 max	

Grado acciaio / Steel grade	Snervamento / Yield Strength min. ksi [MPa]	Rottura / Tensile Streigth min. ksi [MPa]
304, 316	30 [205]	75 [515]
304L, 316L	20 [170]	70 [485]
ASTM A105	36 [250]	70 [485]

TOLLERANZE / TOLERANCES:

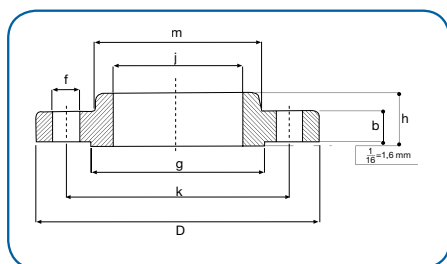
Flange Welding Neck			Flange Slip-on Lapped e Blind		
Area	Dimensione Dimension	Tolleranze Tolerances mm	Area	Dimensione Dimension	Tolleranze Tolerances mm
D Diametro Esterno / Outside Diameter	NPS ≤ 5" NPS ≥ 6"	+2,0, -1,0 +4,0, -1,0	D Diametro Esterno / Outside Diameter	NPS ≤ 5" NPS ≥ 6"	+2,0, -1,0 +4,0, -1,0
J Diametro interno / Inside Diameter	NPS ≤ 10" 12" ≤ NPS ≤ 18" NPS ≥ 20"	± 1,0 ± 1,5 + 3,0 - 1,5	J Diametro interno / Inside Diameter	NPS ≤ 10" 12" ≤ NPS ≤ 18" NPS ≥ 20"	± 1,0 ± 1,5 +3,0, -1,5
b Spessore / Thickness	NPS ≤ 18" NPS ≥ 20"	+3,0, -0,0 +5,0, -0,0	b Spessore / Thickness	NPS ≤ 18" NPS ≥ 20"	+3,0, -0,0 +5,0, -0,0

CARATTERISTICHE TECNICHE

METODO DI FABBRICAZIONE: forgiato
 MARCATURA: accordo ASTM/ASME B16.5
 e MSS SP-25
 ACCIAIO: WP 304/304L, WP 316/316L e ASTM A105
Certificati EN 10204/3.1

TECHNICAL INFORMATION

METHOD OF MANUFACTURE: forged
 MARKING: according to ASTM/ASME B16.5
 and MSS SP-25
 STEEL: WP 304/304L, WP 316/316L and ASTM A105
Certificates: EN 10204/3.1



150 LBS

Nom. Size	D	b	g	m	j	h	k	Fori Holes	f	Kg
	mm	mm	mm	mm	mm	mm	mm		mm	
1/2"	90	11.2	34.9	30	22.2	14	60.3	4	15.9	0.40
3/4"	100	12.7	42.9	38	27.7	14	69.9	4	15.9	0.70
1"	110	14.3	50.8	44	34.5	16	79.4	4	15.9	0.80
1 1/4"	115	15.9	63.5	59	43.2	19	88.9	4	15.9	1.10
1 1/2"	125	17.5	73.0	65	49.5	21	98.4	4	15.9	1.40
2"	150	19.1	92.1	78	61.9	24	120.7	4	19.0	2.20
2 1/2"	180	22.3	104.8	90	74.7	27	139.7	4	19.0	3.60
3"	190	23.9	127.0	108	90.7	29	152.4	4	19.0	4.10
3 1/2"	215	23.9	139.7	122	103.4	30	177.8	8	19.0	5.20
4"	230	23.9	157.2	135	116.1	32	190.5	8	19.0	5.60
5"	255	23.9	185.7	164	143.8	35	215.9	8	22.2	6.30
6"	280	25.4	215.9	192	170.7	38	241.3	8	22.2	7.50
8"	345	28.6	269.9	246	221.5	43	298.4	8	22.2	12.60
10"	405	30.2	323.8	305	276.3	48	361	12	25.4	18.50
12"	485	31.8	381.0	365	327.1	54	431.8	12	25.4	28.00
14"	535	35.0	412.7	400	359.1	56	476.2	12	28.6	36.00
16"	595	36.6	469.9	457	410.5	62	539.8	16	28.6	46.00
18"	635	39.7	533.4	505	461.8	67	577.9	16	31.7	50.00
20"	700	42.9	584.2	559	513.1	71	635.0	20	31.7	64.00
24"	815	47.7	692.1	663	616.0	81	749.3	20	34.9	89.00

FLANGE SLIP-ON FORGIATE

ASME B 16.5
ASTM A 182
ASTM A 105
ASTM A 403
150 / 300 / 600 LBS

FORGED SLIP-ON FLANGES

ASME B 16.5
ASTM A 182
ASTM A 105
ASTM A 403
150 / 300 / 600 LBS

STAINLESS STEEL AND CARBON STEEL

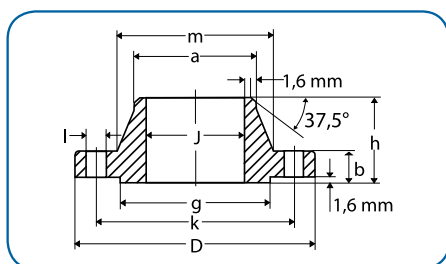
300 LBS

Nom. Size	D	b	g	m	j	h	k	Fori Holes	f	Kg
	mm	mm	mm	mm	mm	mm	mm		mm	
1/2"	95	14.3	34.9	38	22.2	21	66.7	4	15.9	0.70
3/4"	115	15.9	42.9	48	27.7	24	82.6	4	19.0	1.10
1"	125	17.5	50.8	54	34.5	25	88.9	4	19.0	1.40
1 1/4"	135	19.1	63.5	64	43.2	25	98.4	4	19.0	1.80
1 1/2"	155	20.6	73.0	70	49.5	29	114.3	4	22.2	2.60
2"	165	22.2	92.1	84	61.9	32	127.0	8	19.0	3.40
2 1/2"	190	25.4	104.8	100	74.7	37	149.2	8	22.2	4.40
3"	210	28.6	127.0	117	90.7	41	168.3	8	22.2	6.10
3 1/2"	230	30.2	139.7	133	103.4	43	184.2	8	22.2	7.50
4"	255	31.7	157.2	146	116.1	46	200.0	8	22.2	10.10
5"	280	34.9	185.7	178	143.8	49	235.0	8	22.2	12.50
6"	320	36.5	215.9	206	170.7	51	269.9	12	22.2	14.10
8"	380	41.3	269.9	260	221.5	60	330.2	12	25.4	24.80
10"	445	47.6	323.8	321	276.3	65	387.4	16	28.6	37.10
12"	520	50.8	381.0	375	327.1	71	450.8	16	31.7	50.00

600 LBS

Nom. Size	D	b	g	m	j	h	k	Fori Holes	f	Kg
	mm	mm	mm	mm	mm	mm	mm		mm	
1/2"	95	14.3	34.9	38	22.2	22	66.7	4	15.9	0.80
3/4"	115	15.9	42.9	48	27.7	25	82.6	4	19.0	1.40
1"	125	17.5	50.8	54	34.5	27	88.9	4	19.0	1.60
1 1/4"	135	20.7	63.5	64	43.2	29	98.4	4	19.0	2.10
1 1/2"	155	22.3	73.0	70	49.5	32	114.3	4	22.2	3.10
2"	165	25.4	92.1	84	61.9	37	127.0	8	19.0	3.70
2 1/2"	190	28.6	104.8	100	74.7	41	149.2	8	22.2	5.40
3"	210	31.8	127.0	117	90.7	46	168.3	8	22.2	7.30
4"	275	38.1	157.2	152	116.1	54	200.0	8	25.4	11.8
5"	330	44.5	185.7	189	143.8	60	235.0	8	28.6	24.5
6"	355	47.7	215.9	222	170.7	67	269.9	12	28.6	29.5
8"	420	55.6	269.9	273	221.5	76	330.2	12	31.7	43.0
10"	510	63.5	323.8	343	276.3	86	387.4	16	34.9	70.0
12"	560	66.7	381.0	400	327.1	92	450.8	20	34.9	86.0

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



150 LBS

Nom. Size	O.D. mm	D mm	J mm	b mm	h mm	a mm	m mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	21.3	90	15.7	11.2	46	21.3	30	35.1	15.7	60.3	4	0.48
3/4"	26.7	100	20.8	12.7	51	26.7	38	42.9	15.7	69.9	4	0.71
1"	33.4	110	26.7	14.2	54	33.5	49	50.8	15.7	79.4	4	1.01
1 1/4"	42.2	115	35.1	15.7	56	42.2	59	63.5	15.7	88.9	4	1.33
1 1/2"	48.3	125	40.9	17.5	60	48.3	65	73.2	15.7	98.4	4	1.72
2"	60.3	150	52.6	19.1	62	60.5	78	91.9	19.1	120.7	4	2.58
2 1/2"	73.0	180	62.7	22.4	68	73.2	90	104.6	19.1	139.7	4	4.11
3"	88.9	190	78.0	23.9	68	88.9	108	127.0	19.1	152.4	4	4.92
4"	114.3	230	102.4	23.9	75	114.3	135	157.2	19.1	190.5	8	6.84
5"	141.3	255	128.3	23.9	87	141.2	164	185.7	22.4	215.9	8	9.20
6"	168.3	280	154.2	25.4	87	168.4	192	215.9	22.4	241.3	8	10.60
8"	219.1	345	202.7	28.4	100	219.2	246	269.7	22.4	298.5	8	17.60
10"	273.0	405	254.5	30.2	100	273.1	305	323.9	25.4	362.0	12	24.00
12"	323.8	485	304.8	31.8	113	323.9	365	381.0	25.4	431.8	12	36.50
14"	355.6	535	336.5	34.9	125	355.6	400	412.7	28.6	476.2	12	51.00
16"	406.4	595	387.3	36.5	125	406.4	457	469.9	28.6	539.8	16	60.00
18"	457.2	635	438.1	39.6	138	457.2	505	533.4	31.8	577.9	16	68.30
20"	508.0	700	488.9	42.9	143	508.0	559	584.2	31.8	635.0	20	84.50
24"	609.6	815	590.5	47.8	151	609.6	663	692.2	35.1	749.3	20	115.00

SCH 10S/80S SU RICHIESTA / ON REQUEST

FLANGE WELDING NECK FORGIATE

ASME B 16.5 ASTM A182
SCH 40S
ASTM A 105
ASTM A 403
150 / 300 / 600 LBS

FORGED WELDING NECK FLANGES

ASME B 16.5 ASTM A182
SCH 40S
ASTM A 105
ASTM A 403
150 / 300 / 600 LBS

STAINLESS STEEL AND CARBON STEEL

300 LBS

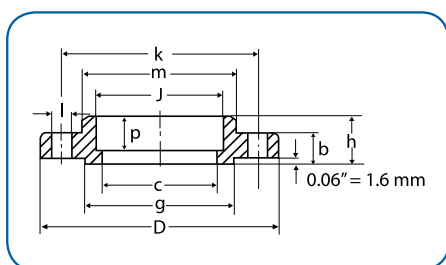
Nom. Size	O.D. mm	D mm	J mm	b mm	h mm	a mm	m mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	21.3	95	15.7	14.2	51	21.3	38.1	35.0	15.7	66.7	4	0.75
3/4"	26.7	115	20.8	15.7	56	26.7	47.7	42.9	19.0	82.6	4	1.26
1"	33.4	125	26.7	17.5	60	33.5	53.8	50.8	19.0	88.9	4	1.52
1 1/4"	42.2	135	35.1	19.0	64	42.2	63.5	63.5	19.0	98.4	4	2.03
1 1/2"	48.3	155	40.9	20.6	67	48.3	69.5	73.1	22.3	114.3	4	2.89
2"	60.3	165	52.6	22.3	67	60.4	84.0	91.9	19.0	127.0	8	3.40
2 1/2"	73.0	190	62.7	25.4	75	73.1	100.0	104.6	22.3	149.2	8	5.17
3"	88.9	210	78.0	28.4	78	88.9	117.3	127.0	22.3	168.3	8	6.93
4"	114.3	255	102.4	31.7	84	114.3	146.0	157.2	22.3	200.0	8	11.20
5"	141.3	280	128.3	35.1	97	141.3	177.8	185.7	22.4	235.0	8	15.10
6"	168.3	320	154.2	36.5	97	168.4	206.2	215.9	22.3	269.7	12	19.10
8"	219.1	380	202.7	41.1	110	219.2	260.3	269.7	25.4	330.2	12	29.90
10"	273.0	445	254.5	47.6	116	273.1	320.7	323.8	28.6	387.3	16	44.30
12"	323.8	520	304.8	50.8	129	323.9	374.6	381.0	31.7	450.8	16	64.00

SCH 10S/80S SU RICHIESTA / ON REQUEST

600 LBS

Nom. Size	D mm	J mm	b mm	h mm	a mm	m mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	95	15.7	14.2	52	21.3	38.1	35.0	15.7	66.7	4	0.90
3/4"	115	20.8	15.7	57	26.7	47.7	42.9	19.0	82.6	4	1.50
1"	125	26.7	17.5	62	33.5	53.8	50.8	19.0	88.9	4	1.90
1 1/4"	135	35.1	20.6	67	42.2	63.5	63.5	19.0	98.4	4	2.60
1 1/2"	155	40.9	22.2	70	48.3	69.5	73.1	22.2	114.3	4	3.30
2"	165	52.6	25.4	73	60.4	84.0	91.9	19.0	127.0	8	4.70
2 1/2"	190	62.7	28.6	79	73.1	100.0	104.6	22.2	149.2	8	6.50
3"	210	78.0	31.7	83	88.9	117.3	127.0	22.2	168.3	8	8.70
4"	275	102.4	38.1	102	114.3	152	157.2	25.4	215.9	8	18.1
5"	330	128.3	44.4	11	141.3	189	185.7	28.6	266.7	8	30.5
6"	355	154.2	47.6	117	168.4	222	215.9	28.6	292.1	12	36.2
8"	420	202.7	55.6	133	219.2	273	269.7	31.7	349.2	12	56.5
10"	510	254.5	63.5	152	273.1	343	323.8	34.9	431.8	16	91.0
12"	560	304.8	66.7	156	323.9	400	381.0	34.9	488.9	20	105

SCH 10S/80S SU RICHIESTA / ON REQUEST



FLANGE DA SALDARE A TASCA FORGIATE

ASME B 16.5 ASTM A182
SCH. 40S
ASTM A 105
ASTM A 403
150 LBS o 300 LBS

FORGED SOCKET WELDING FLANGES

ASME B 16.5 ASTM A182
SCH. 40S
ASTM A 105
ASTM A 403
150 LBS or 300 LBS

STAINLESS STEEL AND CARBON STEEL

150 LBS

Nom. Size	O.D. mm	D mm	J mm	c mm	p mm	b mm	h mm	m mm	g mm	Fori Holes	l mm	K mm	Kg
1/2"	21.3	90	22.2	15.7	9.7	11.2	14	30	35.1	4	15.7	60.3	0.42
3/4"	26.7	100	27.7	20.8	11.2	12.7	14	38	42.9	4	15.7	69.9	0.59
1"	33.4	110	34.5	26.7	12.7	14.2	16	49	50.8	4	15.7	79.4	0.81
1 1/4"	42.2	115	43.2	35.1	14.2	15.7	19	59	63.5	4	15.7	88.9	1.07
1 1/2"	48.3	125	49.5	40.9	15.7	17.5	21	65	73.2	4	15.7	98.4	1.36
2"	60.3	150	61.9	52.6	17.5	19.1	24	78	91.9	4	19.1	120.7	2.10

300 LBS

Nom. Size	O.D. mm	D mm	J mm	c mm	p mm	b mm	h mm	m mm	g mm	Fori Holes	l mm	K mm	Kg
1/2"	21.3	95	22.2	15.7	9.7	14.2	21	38	35.1	4	15.7	66.7	0.66
3/4"	26.7	115	27.7	20.8	11.2	15.7	24	48	42.9	4	19.1	82.6	1.15
1"	33.4	125	34.5	26.7	12.7	17.5	25	54	50.8	4	19.1	88.9	1.40
1 1/4"	42.2	135	43.2	35.1	14.2	19.1	25	64	63.5	4	19.1	98.4	1.75
1 1/2"	48.3	155	49.5	40.9	15.7	20.6	29	70	73.2	4	22.4	114.3	2.55
2"	60.3	165	61.9	52.6	17.5	22.4	32	84	91.9	8	19.1	127.0	2.93

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



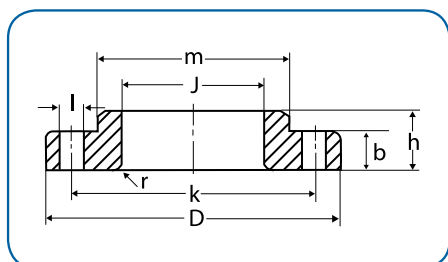
FLANGE LAP JOINT FORGIATE

ASME B 16.5
ASTM A182
ASTM A105
ASTM A403
150 LBS

FORGED LAP JOINT FLANGES

ASME B 16.5
ASTM A182
ASTM A105
ASTM A403
150 LBS

STAINLESS STEEL AND CARBON STEEL

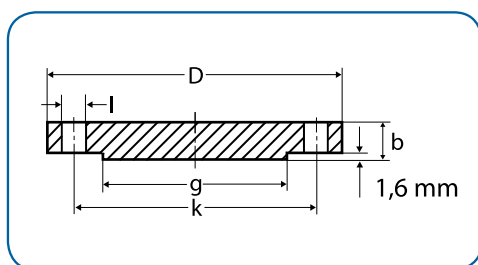


150 LBS

Nom. Size	O.D. mm	D mm	J mm	b mm	h mm	r mm	m mm	l mm	k mm	Fori Holes	kg
1/2"	21.3	90	22.9	11.2	16	3	30	15.7	60.3	4	0.39
3/4"	26.7	100	28.2	12.7	16	3	38	15.7	69.9	4	0.56
1"	33.4	110	34.9	14.2	17	3	49	15.7	79.4	4	0.78
1 1/2"	48.3	125	50.0	17.5	22	6	65	15.7	98.4	4	1.32
2"	60.3	150	62.5	19.1	25	8	78	19.1	120.7	4	2.06
3"	88.9	190	91.4	23.9	30	10	108	19.1	152.4	4	3.20
4"	114.3	230	116.8	23.9	33	11	135	19.1	190.5	8	5.30
6"	168.3	280	171.4	25.4	40	13	192	22.4	241.3	8	7.45



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



150 LBS

Nom. Size	O.D. mm	D mm	b mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	21.3	90	11.2	35.1	15.7	60.3	4	0.42
3/4"	26.7	100	12.7	42.9	15.7	69.9	4	0.61
1"	33.4	110	14.3	50.8	15.7	79.4	4	0.86
1 1/4"	42.2	115	15.9	63.5	15.7	88.9	4	1.30
1 1/2"	48.3	125	17.5	73.2	15.7	98.4	4	1.53
2"	60.3	150	19.1	91.9	19.1	120.7	4	2.42
2 1/2"	73.0	180	22.3	104.8	19.1	139.7	4	4.10
3"	88.9	190	23.9	127.0	19.1	152.4	8	4.93
4"	114.3	230	23.9	157.2	19.1	190.5	8	7.00
5"	141.3	255	23.9	185.7	22.4	215.9	8	9.00
6"	168.3	280	25.4	215.9	22.4	241.3	8	11.30
8"	219.1	345	28.6	269.7	22.4	298.5	8	19.69
10"	273.0	405	30.2	323.9	25.4	362.0	12	28.80
12"	323.8	485	31.8	381.0	25.4	431.8	12	43.20
14"	355.6	535	35.0	412.7	25.4	476.2	12	59.00
16"	406.4	595	36.6	469.9	28.4	539.8	16	79.00
18"	457.2	635	39.7	533.4	31.8	577.9	16	93.70
20"	508.0	700	42.9	584.2	31.8	635.0	20	122.00
24"	609.6	815	47.7	692.2	35.1	749.3	20	185.00

FLANGE CIECHE FORGIATE

ASME B 16.5
ASTM A182
ASTM A105
ASTM A403
150 / 300 / 600 LBS

FORGED BLIND FLANGES

ASME B 16.5
ASTM A182
ASTM A105
ASTM A403
150 / 300 / 600 LBS

STAINLESS STEEL AND CARBON STEEL

300 LBS

Nom. Size	O.D. mm	D mm	b mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	21.3	95	14.3	35.0	15.7	66.7	4	0.64
3/4"	26.7	115	15.9	42.9	19.0	82.6	4	1.11
1"	33.4	125	17.5	50.8	19.0	88.9	4	1.39
1 1/4"	42.2	135	19.1	63.5	19.0	98.4	4	2.00
1 1/2"	48.3	155	20.7	73.1	22.3	114.3	4	2.66
2"	60.3	165	22.3	91.9	19.0	127.0	8	3.18
2 1/2"	73.0	190	25.4	104.8	22.3	149.2	8	5.10
3"	88.9	210	28.6	127.0	22.3	168.3	8	6.81
4"	114.3	255	31.8	157.2	22.3	200.0	8	11.50
5"	141.3	280	35.0	185.7	22.3	235.0	8	14.50
6"	168.3	320	36.6	215.9	22.3	269.9	12	20.90
8"	219.1	380	41.3	269.7	25.4	330.2	12	34.30
10"	273.0	445	47.7	323.8	28.6	387.4	16	57.00
12"	323.8	520	50.8	381.0	31.7	450.8	16	87.00

600 LBS

Nom. Size	D mm	b mm	g mm	l mm	k mm	Fori Holes	kg
1/2"	95	14.3	35	15.7	66.7	4	0.70
3/4"	115	15.9	42.9	19.0	82.6	4	1.20
1"	125	17.5	50.8	19.0	88.9	4	1.50
1 1/4"	135	20.7	63.5	19.0	98.4	4	2.00
1 1/2"	155	22.3	73.1	22.3	114.3	4	3.20
2"	165	25.4	91.9	19.0	127.0	8	4.30
2 1/2"	190	28.6	104.8	22.2	149.2	8	6.00
3"	210	31.7	127.0	22.2	168.3	8	8.00
4"	275	38.1	157.2	25.4	215.9	8	18.0
5"	330	44.4	185.7	28.6	266.7	8	28.5
6"	355	47.6	215.9	28.6	292.1	12	35.5
8"	420	55.6	269.7	31.7	349.2	12	58.0
10"	510	63.5	323.8	34.9	431.8	16	98.0
12"	560	66.7	381.0	34.9	488.9	20	125

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

ISO 4144
EN 10241



Stainless steel and carbon steel



RACCORDERIA FILETTATA | *THREADED FITTINGS*

INFORMAZIONI GENERALI / *GENERAL INFORMATION*

I raccordi filettati forniti da SENECA si distinguono in due diverse tipologie:

The threaded fittings provided by SENECA are divided into two different types:

TIPO STANDARD ISO 4144 - *STANDARD TYPE ISO 4144*

TIPO PESANTE EN-10241 - *HEAVY TYPE EN-10241*

Le tabelle riportate in seguito permettono un confronto tra le due tipologie secondo le caratteristiche dimensionali.

Tables below allow a comparison between the two types according to the dimensional characteristics.

TOLLERANZE / *TOLERANCES: ISO 4144*

I valori riportati nelle tabelle sulla lunghezza sono valori minimi e si applicano per tutti i raccordi.

The length values shown in the tables are minimum values and they are applied for all fittings.

Il Diametro esterno e interno indicato nelle tabelle è un valore minimo e si applica per tutti i raccordi.

Outside and inside diameter shown in the tables is a minimum value and is applied for all fittings.

Le tolleranze sullo spessore di parete devono essere le seguenti:

Tolerances on wall thickness must be the following:

DIMENSIONI / <i>DIMENSIONS:</i>	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO-4144 Valori minimi / <i>Minimum values</i>	1,5	1,5	1,5	1,6	1,7	1,9	2,2	2,4	2,7	3,2	3,6	4,1

TOLLERANZE / *TOLERANCES: EN-10241*

Le tolleranze sulla lunghezza del raccordo:

Tolerances on fitting length:

DIMENSIONI / <i>DIMENSIONS:</i> mm	Fino a 25 compreso	> di 25 fino a 40	> di 40 fino a 65	> di 65 fino a 75	> di 75 fino a 150	> di 150
Tolleranze <i>Tolerances</i>	+1,5 0	+3,0 0	+4,5 0	+6,0 0	+8,0 0	+10,0 0

Il Diametro esterno e interno indicato nelle tabelle è un valore minimo e si applica per tutti i raccordi.

Outside and inside diameter shown in the tables is a minimum value and is applied for all fittings.

Le tolleranze sullo spessore di parete devono essere le seguenti:

Tolerances on wall thickness must be the following:

DIMENSIONI / <i>DIMENSIONS:</i>	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
Serie media	2,0	2,3	2,3	2,6	2,6	3,2	3,2	3,2	3,6	3,6	4,0	4,5
Serie pesante	2,6	2,9	2,9	3,2	3,2	4,0	4,0	4,0	4,5	4,5	5,0	5,4
Tolleranze / <i>Tolerances</i>	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%	+0 -12,5%

CARATTERISTICHE TECNICHE

TIPO STANDARD ISO 4144:

Esecuzione: Microfusione

Dimensioni e tolleranze in accordo ISO 4144

Filettatura: conforme a EN 10226-1 (EX ISO 7-1) (filetto maschio conico, filetto femmina cilindrico)

Acciaio: AISI 316/EN 1.4401

Pressione d'esercizio: 150 Lbs - PN10

Certificati EN 10204/2.1

TECHNICAL INFORMATION

STANDARD TYPE ISO 4144:

Execution: Microcasting

Dimensions and tolerances according ISO 4144

Thread: according to EN 10226-1 (EX ISO 7-1) (conical male thread, cylindric female thread)

Steel: AISI 316/EN 1.4401

Rate pressure: 150 Lbs - PN10

Certificates: EN 10204/2.1

CARATTERISTICHE TECNICHE

TIPO PESANTE EN-10241:

Esecuzione: Microfusione

Caratteristiche dimensionali tipo EN-10241

Filettatura: conforme a EN 10226-1 (EX ISO 7-1) (filetto maschio conico, filetto femmina cilindrico)

Acciaio: AISI 316/EN 1.4401

Pressione d'esercizio: 150 Lbs - PN10

Certificati EN 10204/2.1

TECHNICAL INFORMATION

HEAVY TYPE EN-10241:

Execution: Microcasting

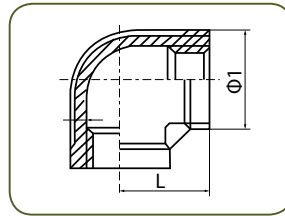
Dimensional characteristics type to EN-10241

Thread: according to EN 10226-1 (EX ISO 7-1) (conical male thread, cylindric female thread)

Steel: AISI 316/EN 1.4401

Rate pressure: 150 Lbs - PN10

Certificates: EN 10204/2.1


**IF 90 GOMITO
ELBOW FF**

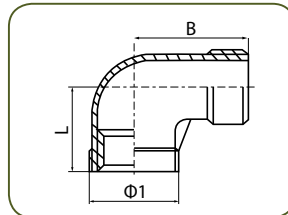
ISO 4144

**IFE 90 GOMITO
ELBOW FF**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13.7	16.7	20.7	25.2	30.7	38.2	47.5	54	66.5	83.5	97	123
	L	17	19	23	27	32	38	45	48	57	69	78	97
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	18.5	22	29	34.5	42.5	52	58	71	86	100	//
	L	//	22	24	32	35	43	51	52	64	76	89	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED


**IF 92 GOMITO MF
STREET ELBOW MF**

ISO 4144

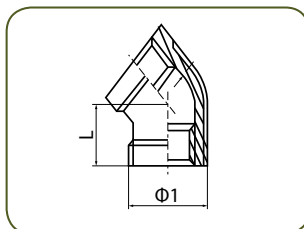
**IFE 92 GOMITO MF
STREET ELBOW MF**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13.7	16.7	20.7	25.2	30.7	38.2	47.5	54	66.5	83.5	97	123
	L	17	19	23	27	32	38	45	48	57	69	78	97
	B	26	27	29	35	40	46	54	57	70	83	94	115
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	18.5	22	29	34.5	42.5	52	58	71	86	100	//
	L	//	19	21	25	30	37	43	49	59	68	81	//
	B	//	27	29	35	40	46	54	57	70	83	94	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


**IF 120 GOMITO 45°
ELBOW 45°**

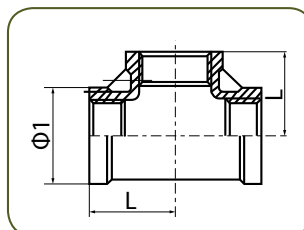
ISO 4144

**IFE 120 GOMITO 45°
ELBOW 45°**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13.7	16.7	20.7	25.2	30.7	38.2	47.5	54	66.5	83.5	97	123
	L	16	17	19	21	25	29	33	37	42	49	54	64
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	18.5	22	27	32.5	39.5	49	56	68	84	//	//
	L	//	19	19	22	27	33	38	44	51	59	//	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	//	//

// = NON FORNIBILE / NOT SUPPLIED


**IF 130 TEE
TEE**

ISO 4144

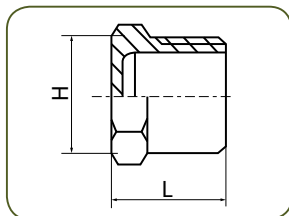
**IFE 130 TEE
TEE**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13.7	16.7	20.7	25.2	30.7	38.2	47.5	54	66.5	83.5	97	123
	L	17	19	23	27	32	38	45	48	57	69	78	96
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	18.5	22	27	32.5	39.5	49	56	68	84	98	//
	L	//	22	24	32	35	43	51	52	64	76	89	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


IF 292 TAPPO MASCHIO
HEX PLUG

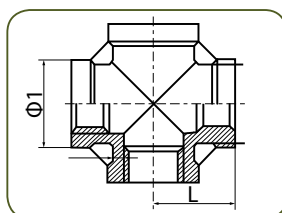
ISO 4144

IFE 292 TAPPO MASCHIO
HEX PLUG

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	H	11	15	18	22	28	35	43.5	49.5	62	77.5	90.5	117
	L	12	14.5	16	19.5	21	24	27	27	32	34	37.5	44
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	H	//	13.2	16.7	21	26.5	33.3	42	47.9	59.7	75.3	88	//
	L	//	18.5	20.5	25.5	29	31	35	37	41	48	54	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED


IF180 CROCE FEMMINA
CROSS

ISO 4144

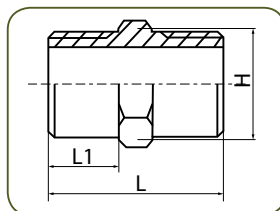
IFE180 CROCE FEMMINA
CROSS

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13.7	16.7	20.7	25.2	30.7	38.2	47.5	54	66.5	83.5	97	123
	L	17	19	23	27	32	38	45	48	57	69	78	97
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	18.5	22	27	32.5	39.5	49	56	68	84	//	//
	L	//	22	24	32	35	43	51	52	64	76	//	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	//	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


**IF 280 NIPLO
NIPPLE**

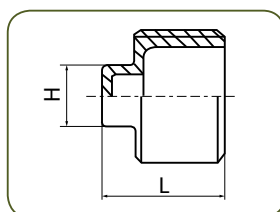
ISO 4144

**IFE 280 NIPLO
NIPPLE**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	L	20	25	27	34	36.5	42	47.5	47.5	57	61	67.5	80
	L1	8	10.5	11	14.5	15.5	18	20.5	20.5	25	27	30	36
	H	11	15	18	22	28	35	43.5	49.5	62	77.5	90.5	117
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	L	//	31	33	43	48	52	59	61	68	80	89	//
	L1	//	12.5	12.5	17.5	19	21	24	24	27	32	35	//
	H	//	14	17	22	27	36	46	50	65	78	90	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED


**IF 290 TAPPO TESTA QUADRA
SQUARE PLUG**

ISO 4144

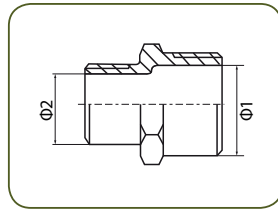
**IFE 290 TAPPO TESTA QUADRA
SQUARE PLUG**

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	L	13	12.5	15	18.5	21	25.5	28	29	34.5	38.5	41.5	51.5
	H	6	7	8	10	12	14	16	20	22	28	32	40
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	L	//	15.7	20.1	23.2	26.5	28.8	35.1	35.1	42.4	45.7	51.8	//
	H	//	9	11	13	14	17	22	27	32	37	37	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


IF 245 NIPPOLO RIDOTTO
RED NIPPLE

ISO 4144

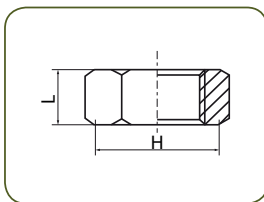
IFE 245 NIPPOLO RIDOTTO
RED NIPPLE

EN-10241

Tipo Standard Standard Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
ISO4144	Ø 1	8	11.5	11.5	15	15	20.5
	Ø 2	5.5	5.5	8	8	11.5	11.5
	SP/THK	1.5	1.5	1.5	1.6	1.6	1.7
Tipo Standard Standard Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
ISO 4144	Ø 1	20.5	26	26	34.5	34.5	34.5
	Ø 2	15	15	20.5	15	20.5	26
	SP/THK	1.7	1.9	1.9	2.2	2.2	2.2
Tipo Standard Standard Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
ISO 4144	Ø 1	40	40	40	51	51	51
	Ø 2	20.5	26	34.5	26	34.5	40
	SP/THK	2.4	2.4	2.4	2.7	2.7	2.7
Tipo Standard Standard Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
ISO 4144	Ø 1	65.5	65.5	77.5	77.5		
	Ø 2	40	51	51	65.5		
	SP/THK	3.2	3.2	3.6	3.6		
Tipo Pesante Heavy Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
EN-10241	Ø 1	//	//	10	12.5	12.5	20.5
	Ø 2	//	//	7.5	7.5	10	10
	SP/THK	//	//	2.3/2.9	2.6/3.2	2.6/3.2	3.2/4.0
Tipo Pesante Heavy Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
EN-10241	Ø 1	20.5	25.5	25.5	31.5	31.5	31.5
	Ø 2	12.5	12.5	20.5	12.5	20.5	25.5
	SP/THK	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0
Tipo Pesante Heavy Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
EN-10241	Ø 1	38.5	38.5	38.5	50.5	50.5	50.5
	Ø 2	20.5	25.5	31.5	25.5	31.5	38.5
	SP/THK	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	3.6/4.5
Tipo Pesante Heavy Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
EN-10241	Ø 1	65.5	65.5	77.5	77.5		
	Ø 2	38.5	50.5	50.5	65.5		
	SP/THK	3.6/4.5	3.6/4.5	4.0/5.0	4.0/5.0		

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


**IF 310 CONTRODADO
BACK NUT**

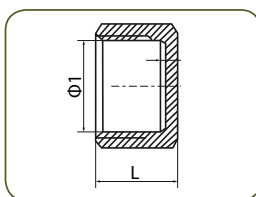
ISO 4144

**IFE 310 CONTRODADO
BACK NUT**

EN 10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	L	5	6	6	7	7	9	11	11	12	15	17	20
	H	15	18	22	27	32	40	48	55	68	85	100	125
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	L	//	6.5	7	8	9	9.5	11	12	13	17	21	-
	H	//	19	24	30	36	41	50	60	70	90	100	-

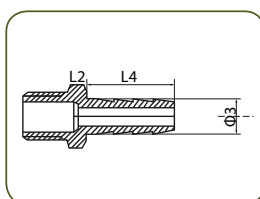
// = NON FORNIBILE / NOT SUPPLIED


**IF 300 CALOTTA ESAGONALE
HEXAGONAL CAP**

ISO 4144

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	8	11	14.4	18	23.6	29.7	38.4	44.2	56	70.6	82	107.5
	L	13.5	17	17.5	21	22.5	26	29	29	33.5	38.5	42	48.5
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	//	//	//	//	//	//	//	//	//	//	//	//
	L	//	//	//	//	//	//	//	//	//	//	//	//
	SP/THK	//	//	//	//	//	//	//	//	//	//	//	//

// = NON FORNIBILE / NOT SUPPLIED

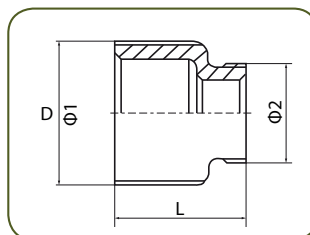

**IF 344 PORTAGOMMA
HOSE NIPPLE**

ISO 4144

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 3	8	9	11.5	15	20	27	33	39.5	52	67	80	105
	L2	4	4	5	5	5.5	6	6.5	6.5	7	7	7.5	8
	L4	26	28	33	38	45	52	52	56	60	65	70	73
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 3	//	//	//	//	//	//	//	//	//	//	//	//
	L2	//	//	//	//	//	//	//	//	//	//	//	//
	L4	//	//	//	//	//	//	//	//	//	//	//	//
	SP/THK	//	//	//	//	//	//	//	//	//	//	//	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


IF 240 MANICOTTO RIDOTTO
REDUCING COUPLING

ISO 4144

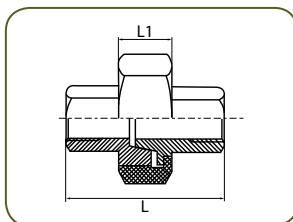
IFE 240 MANICOTTO RIDOTTO
REDUCING COUPLING

EN-10241

Tipo Standard Standard Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
ISO4144	Ø 1	16.5	20	20	24.5	24.5	30
	Ø 2	13	13	16.5	16.5	20	20
	L	25	26	26	34	34	36
	SP/THK	1.5	1.5	1.5	1.6	1.6	1.7
Tipo Standard Standard Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
ISO 4144	Ø 1	30	37.5	37.5	46.5	46.5	46.5
	Ø 2	24.5	24.5	30	24.5	30	37.5
	L	36	42	42	48	48	48
	SP/THK	1.7	1.9	1.9	2.2	2.2	2.2
Tipo Standard Standard Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
ISO 4144	Ø 1	53	53	53	65.5	65.5	65.5
	Ø 2	30	37.5	46.5	37.5	46.5	53
	L	52	52	52	58	58	58
	SP/THK	2.4	2.4	2.4	2.7	2.7	2.7
Tipo Standard Standard Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
ISO 4144	Ø 1	82	82	95.5	95.5		
	Ø 2	53	65.5	65.5	82		
	L	65	65	72	72		
	SP/THK	3.2	3.2	3.6	3.6		
Tipo Pesante Heavy Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
EN-10241	Ø 1	//	24	24	29	29	34.5
	Ø 2	//	17	20.5	20.5	24	24
	L	//	30	30	41	40	43
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	2.6/3.2	3.2/4.0
Tipo Pesante Heavy Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
EN-10241	Ø 1	34.5	42	42	51.5	51.5	51.5
	Ø 2	29	29	34.5	29	34.5	42
	L	41	51	49	59	57	56
	SP/THK	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0
Tipo Pesante Heavy Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
EN-10241	Ø 1	58.5	58.5	58.5	71.5	71.5	71.5
	Ø 2	34.5	42	51.5	42	51.5	58.5
	L	64	62	60	67	65	64
	SP/THK	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	3.6/4.5
Tipo Pesante Heavy Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
EN-10241	Ø 1	//	87.5	//	//		
	Ø 2	//	71.5	//	//		
	L	//	71	//	//		
	SP/THK	//	3.6/4.5	//	//		

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


IF 340 BOCCHETTONE FF
UNION CONICAL FF

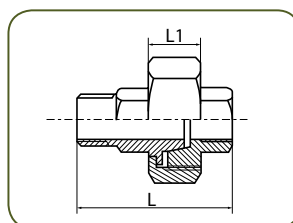
ISO 4144

IFE 340 BOCCHETTONE FF
UNION CONICAL FF

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	L1	13	13.5	15	16	17	20	22	24	27	29.5	31	34
	L	30	33.5	36.5	39.5	42.5	50	54	58	65	75	83	110
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	L1	//	15	16	18	20	22	24	25	27	30	31	//
	L	//	40	46	51	57	64	70	79	89	102	107	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED


IF 341 BOCCHETTONE MF
UNION CONICAL MF

ISO 4144

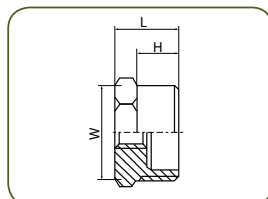
IFE 341 BOCCHETTONE MF
UNION CONICAL MF

EN-10241

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	L1	13	13.5	15	16	17	20	22	24	27	29.5	31	34
	L	38	44	47.5	54	58	68	74.5	78.5	90	102	113	146
	SP/THK	1.5	1.5	1.5	1.6	1.7	1.9	2.2	2.4	2.7	3.2	3.6	4.1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	L1	//	15	16	18	20	22	24	25	27	30	31	//
	L	//	52.5	58.5	68.5	76	85	94	103	116	134	142	//
	SP/THK	//	2.3/2.9	2.3/2.9	2.6/3.2	3.2/4.0	3.2/4.0	3.2/4.0	3.2/4.0	3.6/4.5	3.6/4.5	4.0/5.0	//

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


IF 241 RIDUZIONE M/F
BUSHING M/F

ISO 4144

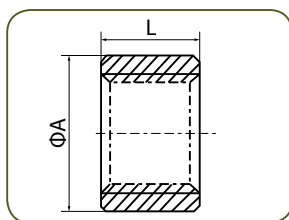
IFE 241 RIDUZIONE M/F
BUSHING M/F

EN-10241

Tipo Standard Standard Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
ISO4144	H	10,5	11	11	14,5	14,5	15,5
	L	14,5	16	16	19,5	19,5	21
	SP/THK	1,5	1,5	1,5	1,6	1,6	1,7
Tipo Standard Standard Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
ISO 4144	H	15,5	18	18	20,5	20,5	20,5
	L	21	24	24	27	27	27
	SP/THK	1,7	1,9	1,9	2,2	2,2	2,2
Tipo Standard Standard Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
ISO 4144	H	20,5	20,5	20,5	20,5	25	25
	L	27	27	27	27	32	32
	SP/THK	2,4	2,4	2,4	2,4	2,7	2,7
Tipo Standard Standard Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
ISO 4144	H	25	27	27	30		
	L	32	34	34	37,5		
	SP/THK	2,7	3,2	3,2	3,6		
Tipo Pesante Heavy Type	Size mm	1/4" - 1/8"	3/8" - 1/8"	3/8" - 1/4"	1/2" - 1/4"	1/2" - 3/8"	3/4" - 3/8"
EN-10241	H	//	//	12,5	17,5	17,5	19
	L	//	//	20,5	25,5	25,5	29
	SP/THK	//	//	2,3/2,9	2,6/3,2	2,6/3,2	3,2/4,0
Tipo Pesante Heavy Type	Size mm	3/4" - 1/2"	1" - 1/2"	1" - 3/4"	1 1/4" - 1/2"	1 1/4" - 3/4"	1 1/4" - 1"
EN-10241	H	19	21	21	24	24	24
	L	29	31	31	35	35	35
	SP/THK	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0
Tipo Pesante Heavy Type	Size mm	1 1/2" - 3/4"	1 1/2" - 1"	1 1/2" - 1 1/4"	2" - 1"	2" - 1 1/4"	2" - 1 1/2"
EN-10241	H	24	24	24	24	27	27
	L	37	37	37	37	41	41
	SP/THK	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0	3,6/4,5	3,6/4,5
Tipo Pesante Heavy Type	Size mm	2 1/2" - 1 1/2"	2 1/2" - 2"	3" - 2"	3" - 2 1/2"		
EN-10241	H	27	32	32	35		
	L	41	48	48	54		
	SP/THK	3,6/4,5	3,6/4,5	3,6/4,5	4,0/5,0		

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



IFE 168 MEZZO MANICOTTO HALF COUPLING

EN-10241

CARATTERISTICHE TECNICHE:

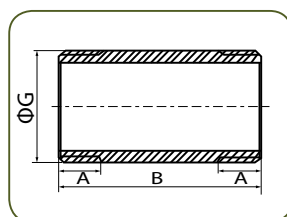
Esecuzione: microfusione
Dimensioni: tipo EN 10241 (EX DIN 2986)
Filettatura: conforme a EN 10226-1 (EX ISO 7-1)
Acciaio: AISI 316/EN 1.4401
Pressione d'esercizio: 150 Lbs-PN10
Certificati EN 10204/2.1

TECHNICAL INFORMATION:

Execution: microcasting
Dimensional standard type EN 10241 (EX DIN 2986)
Thread: according to EN 10226-1 (EX ISO 7-1)
Steel: AISI 316/EN 1.4401
Rate pressure: 150 Lbs-PN10
Certificates EN 10204/2.1

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø A	//	//	//	//	//	//	//	//	//	//	//	//
	L	//	//	//	//	//	//	//	//	//	//	//	//
	SP/THK	//	//	//	//	//	//	//	//	//	//	//	//
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø A	15	18,5	21,3	26,6	31,8	39,5	48,3	54,5	68	84,2	98,4	124
	L	8	11	12	15	17	20	22	22	26	30	34	40
	SP/THK	2,0/2,6	2,3/2,9	2,3/2,9	2,6/3,2	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0	3,6/4,5	3,6/4,5	4,0/5,0	4,5/5,4

// = NON FORNIBILE / NOT SUPPLIED



IFE 530 BARILOTTO BARREL NIPPLE

EN 10241

CARATTERISTICHE TECNICHE:

Ricavato da tubo saldato (SCH 40)
Dimensioni: tipo EN 10241 (EX DIN 2982)
Filettatura: conforme a EN 10226-1 (EX ISO 7-1)
Acciaio: AISI 316/EN 1.4401 o AISI 316L/EN 1.4404
Pressione d'esercizio: 150 Lbs-PN10
Certificati EN 10204/2.1

TECHNICAL INFORMATION:

Made from pipes welded (SCH 40)
Dimensional standard: type EN 10241 (EX DIN 2982)
Thread: according to EN 10226-1 (EX ISO 7-1)
Steel: AISI 316/EN 1.4401 or AISI 316L/EN 1.4404
Rate pressure: 150 Lbs-PN10
Certificates EN 10204/2.1

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	G	//	//	//	//	//	//	//	//	//	//	//	//
	A	//	//	//	//	//	//	//	//	//	//	//	//
	B	//	//	//	//	//	//	//	//	//	//	//	//
	SP/THK	//	//	//	//	//	//	//	//	//	//	//	//
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	G	10	14	17,2	21,4	26,7	33,4	42,2	48,3	60,4	73,1	88,9	114,3
	A	11	11	12	15	17	20	21	21	26	28	31	35
	B	40	40	40	60	60	60	80	80	100	100	120	150
	SP/THK	2,0	2,2	2,3	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	5,87

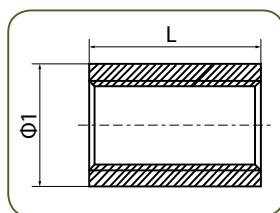
// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



IF 270 MANICOTTO COUPLING

ISO 4144



IFE 270 MANICOTTO IFE 274 MANICOTTO COUPLING

EN-10241

CARATTERISTICHE TECNICHE:

Esecuzione: microfusione
Dimensioni: ISO 4144 e tipo EN 10241 (EX DIN 2986)
Filettatura: conforme a EN 10226-1 (EX ISO 7-1)
Acciaio: AISI 316/EN 1.4401, AISI 316L/EN 1.4404, AISI 304/EN 1.4301, AISI 304L/EN 1.4407
Pressione d'esercizio: 150 Lbs-PN10
Certificati EN 10204/2.1

TECHNICAL INFORMATION:

Execution: microcasting
Dimensional standard ISO 4144 and type EN 10241 (EX DIN 2986)
Thread: according to EN 10226-1 (EX ISO 7-1)
Steel: AISI 316/EN 1.4401, AISI 316L/EN 1.4404, AISI 304/EN 1.4301, AISI 304L/EN 1.4407
Rate pressure: 150 Lbs-PN10
Certificates EN 10204/2.1

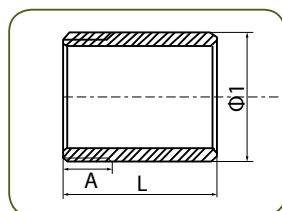
Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	13	16,5	20	24,5	30	37,5	46,5	53	65,5	82	95,5	121,5
	L	17	24	25	32	35	41	45	45	54	63	69	81
	SP/THK	1,5	1,5	1,5	1,6	1,7	1,9	2,2	2,4	2,7	3,2	3,6	4,1
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	15	18,5	21,3	26,6	31,8	39,5	48,3	54,5	66,2	82	95	121
	L	17	25	26	34	36	43	48	48	56	65	71	83
	SP/THK	2,0/2,6	2,3/2,9	2,3/2,9	2,6/3,2	3,2/4,0	3,2/4,0	3,2/4,0	3,2/4,0	3,6/4,5	3,6/4,5	4,0/5,0	4,5/5,4

// = NON FORNIBILE / NOT SUPPLIED



IFE 600 TRONCHETTO WELDING NIPPLE

EN 10241



IFE 604 TRONCHETTO WELDING NIPPLE

EN 10241

CARATTERISTICHE TECNICHE:

Ricavato da tubo saldato (SCH 40)
Dimensioni e tolleranze EN 10241 (EX DIN 2982)
Filettatura: conforme a EN 10226-1 (EX ISO 7-1)
Acciaio: AISI 316/EN 1.4401, AISI 316L/EN 1.4404, AISI 304/EN 1.4301
Pressione d'esercizio: 150 Lbs-PN10
Certificati EN 10204/2.1

TECHNICAL INFORMATION:

Made from pipes welded (SCH 40)
Dimensions and tolerances type EN 10241 (EX DIN 2982)
Thread: according to EN 10226-1 (EX ISO 7-1)
Steel: AISI 316/EN 1.4401, AISI 316L/EN 1.4404, AISI 304/EN 1.4301
Rate pressure: 150 Lbs-PN10
Certificates EN 10204/2.1

Tipo Standard Standard Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
ISO 4144	Ø 1	//	//	//	//	//	//	//	//	//	//	//	//
	A	//	//	//	//	//	//	//	//	//	//	//	//
	L	//	//	//	//	//	//	//	//	//	//	//	//
	SP/THK	//	//	//	//	//	//	//	//	//	//	//	//
Tipo Pesante Heavy Type	Size mm	1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
EN-10241	Ø 1	10	14	17,2	21,4	26,7	33,4	42,2	48,3	60,4	73,1	88,9	114,3
	A	11	11	12	15	17	20	21	21	26	28	31	35
	L	30	30	30	35	40	40	50	50	50	60	70	80
	SP/THK	2,0	2,2	2,3	2,77	2,87	3,38	3,56	3,68	3,91	5,16	5,49	5,87

// = NON FORNIBILE / NOT SUPPLIED

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

ANSI B 16.11
ANSI B1.20.1

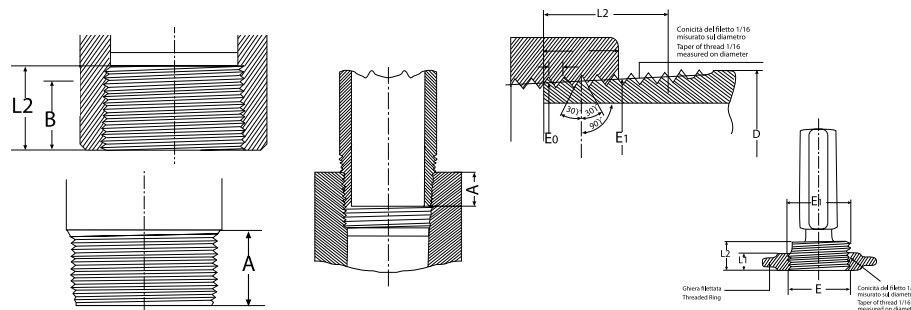


Stainless steel and carbon steel



RACCORDERIA FILETTATA | *THREADED FITTINGS*

CARATTERISTICHE TECNICHE - TECHNICAL INFORMATION



LUNGHEZZA DEL FILETTO

ANSI B16.11

LENGTH OF THREAD

ANSI B16.11

FILETTATURA CONICA PER TUBI (NPT)

ANSI B 1.20.1 O API STD 5 B

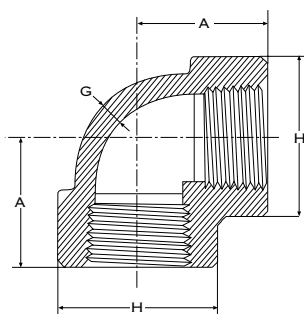
STANDARD TAPER PIPE THREAD (NPT)

ANSI B 1.20.1 O API STD 5 B

Diametro nominale Nominal pipe size	Filetto interno - Internal thread				Filetto esterno - External thread	
	B min.		L2 min.		A min.	
	mm	inches	mm	inches	mm	inches
1/8"	6.5	0.25	6.5	0.2639	9.5	0.38
1/4"	8.0	0.32	10.0	0.4018	11.0	0.44
3/8"	9.0	0.36	10.5	0.4078	12.5	0.50
1/2"	11.0	0.43	13.5	0.5337	14.5	0.56
3/4"	12.5	0.50	14.0	0.5457	16.0	0.62
1"	14.5	0.58	17.5	0.6828	19.0	0.75
1 1/4"	17.0	0.67	18.0	0.7068	20.5	0.81
1 1/2"	18.0	0.70	18.5	0.7235	20.5	0.81
2"	19.0	0.75	19.0	0.7565	22.0	0.88
2 1/2"	23.5	0.93	29.0	1.138	27.0	1.06
3"	26.0	1.02	30.5	1.200	28.5	1.12
4"	27.5	1.09	33.0	1.300	32.0	1.25

Ø nominale del tubo <i>Nominal pipe size</i>	Ø esterno del tubo <i>Outside diameter of pipe</i> mm	Num. filetti per pollice <i>Number of threads per inch</i>	Passo <i>Pitch of thread</i> mm	Ø sul filetto esterno <i>Pitch diameter at external thread end</i> mm	Ø sul filetto interno <i>Pitch diameter at internal thread end</i> mm	Lunghezza effettiva del filetto <i>Effective threads length</i> mm	Lunghezza serraggio a mano <i>Length of hand tightening</i> mm	Incremento del diametro per giro <i>Increase in diameter per thread</i> mm	Lunghezza del serraggio alla chiave <i>Length of wrench tightening</i> mm
D	n	P	E0	E1	L2	L1			A
1/8"	10.29	27	0.940	9.233	9.489	6.703	4.102	0.0586	6.9
1/4"	13.72	18	1.411	12.126	12.487	10.205	5.786	0.0881	10
3/8"	17.14	18	1.411	15.545	15.926	10.358	6.096	0.0881	10.3
1/2"	21.34	14	1.814	19.264	19.772	13.556	8.128	0.1132	13.6
3/4"	26.67	14	1.814	24.579	25.117	13.860	8.610	0.1132	14.1
1"	33.40	11 1/2	2.209	30.826	31.461	17.343	10.160	0.1379	16.8
1 1/4"	42.16	11 1/2	2.209	39.551	40.218	17.952	10.668	0.1379	17.3
1 1/2"	48.26	11 1/2	2.209	45.621	46.287	18.377	10.668	0.1379	17.3
2"	60.32	11 1/2	2.209	57.633	58.325	19.215	11.074	0.1379	17.7
2 1/2"	73.02	8	3.175	69.076	70.159	28.892	17.322	0.1983	23.7
3"	88.90	8	3.175	84.852	86.068	30.480	19.456	0.1983	25.8
3 1/2"	101.60	8	3.175	97.472	98.776	31.750	20.853	0.1983	27.2
4"	114.30	8	3.175	110.093	111.433	33.020	21.437	0.1983	27.8

Ø nominale del tubo <i>Nominal pipe size</i> inches	Ø esterno del tubo <i>Outside diameter of pipe</i> inches	Num. filetti per pollice <i>Number of threads per inch</i>	Passo <i>Pitch of thread</i> inches	Ø sul filetto esterno <i>Pitch diameter at external thread end</i> inches	Ø sul filetto interno <i>Pitch diameter at internal thread end</i> inches	Lunghezza effettiva del filetto <i>Effective threads length</i> inches	Lunghezza serraggio a mano <i>Length of hand tightening</i> inches	Incremento del diametro per giro <i>Increase in diameter per thread</i> inches	Lunghezza del serraggio alla chiave <i>Length of wrench tightening</i> inches
D	n	P	E0	E1	L2	L1			A
1/8"	0.405	27	0.03704	0.36351	0.37360	0.2639	0.1615	0.00231	0.2726
1/4"	0.540	18	0.05556	0.47739	0.49163	0.4018	0.2278	0.00347	0.3945
3/8"	0.675	18	0.05556	0.61201	0.62701	0.4078	0.240	0.00347	0.4067
1/2"	0.840	14	0.07143	0.75843	0.77843	0.5337	3.320	0.00446	0.5343
3/4"	1.050	14	0.07143	0.96768	0.98887	0.5457	0.339	0.00446	0.5533
1"	1.315	11 1/2	0.08696	1.21363	1.23863	0.6828	0.400	0.00543	0.6609
1 1/4"	1.660	11 1/2	0.08696	1.55713	1.58338	0.7068	0.420	0.00543	0.6809
1 1/2"	1.900	11 1/2	0.08696	1.79609	1.82234	0.7235	0.420	0.00543	0.6809
2"	2.375	11 1/2	0.08696	2.26902	2.29627	0.7565	0.436	0.00543	0.6969
2 1/2"	2.875	8	0.12500	2.71953	2.76216	1.1375	0.682	0.00781	0.9320
3"	3.500	8	0.12500	3.34062	3.38850	1.2000	0.766	0.00781	1.016
3 1/2"	4.000	8	0.12500	3.83750	3.88881	1.2500	0.821	0.00781	1.071
4"	4.500	8	0.12500	4.33438	4.33438	1.3000	0.844	0.00781	1.094



GOMITI 90°

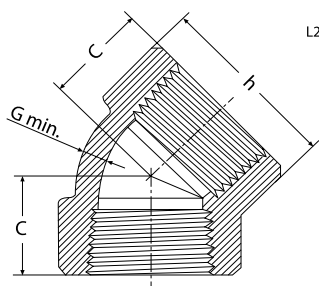
ANSI B16.11
3000 - 6000 LBS

90° ELBOWS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000						6000					
	A		H		G		A		H		G	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	25	0.97	25	1.00	3.5	0.130	29	1.12	33	1.31	6.5	0.260
3/8"	29	1.12	33	1.31	3.5	0.138	33	1.31	38	1.50	7.0	0.275
1/2"	33	1.31	38	1.50	4.0	0.161	38	1.50	46	1.81	8.0	0.321
3/4"	38	1.50	46	1.81	4.5	0.170	44	1.75	56	2.19	8.5	0.336
1"	44	1.75	56	2.19	5.0	0.196	51	2.00	62	2.44	10.0	0.391
1 1/4"	51	2.00	62	2.44	5.5	0.208	60	2.38	75	2.97	10.5	0.417
1 1/2"	60	2.38	75	2.97	5.5	0.219	64	2.50	84	3.31	11.0	0.436
2"	64	2.50	84	3.31	7.0	0.281	83	3.25	102	4.00	12.0	0.476
2 1/2"	83	3.25	102	4.00	7.5	0.301	95	3.75	121	4.75	15.5	0.602
3"	95	3.75	121	4.75	9.0	0.348	106	4.19	146	5.75	16.0	0.655
4"	114	4.50	152	6.00	11.00	0.440	114	4.50	152	6.00	18.5	0.735

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



GOMITI 45°

ANSI B16.11
3000 - 6000 LBS

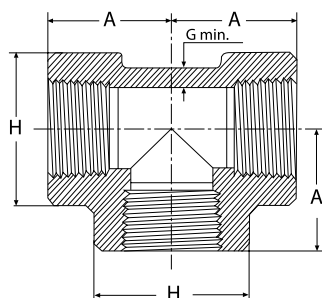
45° ELBOWS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000						6000					
	C		H		G		C		H		G	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	19	0.75	25	1.00	3.5	0.130	22	0.88	33	1.31	6.5	0.260
3/8"	22	0.88	33	1.31	3.5	0.138	25	1.00	38	1.50	7.0	0.275
1/2"	25	1.00	38	1.50	4.0	0.161	29	1.12	46	1.81	8.0	0.321
3/4"	29	1.12	46	1.81	4.5	0.170	33	1.31	56	2.19	8.5	0.336
1"	33	1.31	56	2.19	5.0	0.196	35	1.38	62	2.44	10.0	0.391
1 1/4"	35	1.38	62	2.44	5.5	0.208	43	1.69	75	2.97	10.5	0.417
1 1/2"	43	1.69	75	2.97	5.5	0.219	44	1.72	84	3.31	11.0	0.436
2"	45	1.72	84	3.31	7.0	0.281	52	2.06	102	4.00	12.0	0.476
2 1/2"	52	2.06	102	4.00	7.5	0.301	64	2.50	121	4.75	15.5	0.602
3"	64	2.50	121	4.75	9.0	0.348	79	3.12	146	5.75	16.5	0.655
4"	79	3.12	152	6.00	11.00	0.440	79	3.12	152	6.00	18.5	0.735

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



TEES

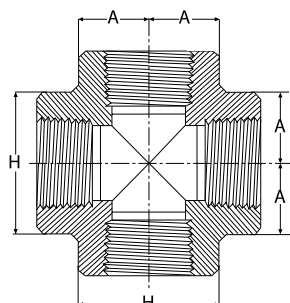
ANSI B16.11
3000 - 6000 LBS

TEES

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000						6000					
	A		H		G		A		H		G	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	25	0.97	25	1.00	3.5	0.130	29	1.12	33	1.31	6.5	0.260
3/8"	29	1.12	33	1.31	3.5	0.138	33	1.31	38	1.50	7.0	0.275
1/2"	33	1.31	38	1.50	4.0	0.161	38	1.50	46	1.81	8.0	0.321
3/4"	38	1.50	46	1.81	4.5	0.170	44	1.75	56	2.19	8.5	0.336
1"	44	1.375	56	2.19	5.0	0.196	51	2.00	62	2.44	10.0	0.391
1 1/4"	51	2.00	62	2.44	5.5	0.208	60	2.38	75	2.97	10.5	0.417
1 1/2"	60	2.38	75	2.97	5.5	0.219	64	2.50	84	3.31	11.0	0.436
2"	64	2.50	84	3.31	7.0	0.281	83	3.25	102	4.00	12.0	0.476
2 1/2"	83	3.25	102	4.00	7.5	0.301	95	3.75	121	4.75	15.5	0.602
3"	95	3.75	121	4.75	9.0	0.348	106	4.19	146	5.75	16.0	0.655
4"	114	4.50	152	6.00	11.00	0.440	114	4.50	152	6.00	18.5	0.735

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



CROCI

ANSI B16.11
3000 - 6000 LBS

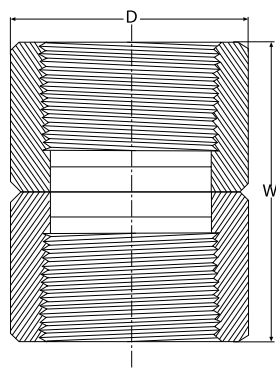
CROSSES

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000						6000					
	A		H		G		A		H		G	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	25	0.97	25	1.00	3.5	0.130	29	1.12	33	1.31	6.5	0.260
3/8"	29	1.12	33	1.31	3.5	0.138	33	1.31	38	1.50	7.0	0.275
1/2"	33	1.31	38	1.50	4.0	0.161	38	1.50	46	1.81	8.0	0.321
3/4"	38	1.50	46	1.81	4.5	0.170	44	1.75	56	2.19	8.5	0.336
1"	44	1.375	56	2.19	5.0	0.196	51	2.00	62	2.44	10.0	0.391
1 1/4"	51	2.00	62	2.44	5.5	0.208	60	2.38	75	2.97	10.5	0.417
1 1/2"	60	2.38	75	2.97	5.5	0.219	64	2.50	84	3.31	11.0	0.436
2"	64	2.50	84	3.31	7.0	0.281	83	3.25	102	4.00	12.0	0.476
2 1/2"	83	3.25	102	4.00	7.5	0.301	95	3.75	121	4.75	15.5	0.602
3"	95	3.75	121	4.75	9.0	0.348	106	4.19	146	5.75	16.0	0.655
4"	114	4.50	152	6.00	11.00	0.440	114	4.50	152	6.00	18.5	0.735

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



MANICOTTI

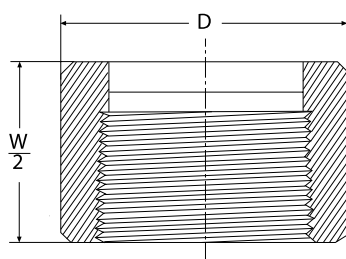
ANSI B16.11
3000 - 6000 LBS

COUPLINGS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	W		D		W		D	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	35	1.38	19	0.75	35	1.38	25	1.00
3/8"	38	1.50	22	0.88	38	1.50	32	1.25
1/2"	48	1.88	29	1.12	48	1.88	38	1.50
3/4"	51	2.00	35	1.38	51	2.00	44	1.75
1"	60	2.38	44	1.75	60	2.38	57	2.25
1 1/4"	67	2.62	57	2.25	67	2.62	64	2.50
1 1/2"	79	3.12	64	2.50	79	3.12	76	3.00
2"	86	3.38	76	3.00	86	3.38	92	3.62
2 1/2"	92	3.62	92	3.62	92	3.62	108	4.25
3"	108	4.25	108	4.25	108	4.25	127	5.00
4"	121	4.75	140	5.50	121	4.75	159	6.25

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



MEZZI MANICOTTI

ANSI B16.11
3000 - 6000 LBS

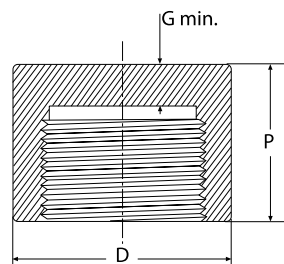
HALF-COUPLINGS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	W		D		W		D	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	35	1.38	19	0.75	35	1.38	25	1.00
3/8"	38	1.50	22	0.88	38	1.50	32	1.25
1/2"	48	1.88	29	1.12	48	1.88	38	1.50
3/4"	51	2.00	35	1.38	51	2.00	44	1.75
1"	60	2.38	44	1.75	60	2.38	57	2.25
1 1/4"	67	2.62	57	2.25	67	2.62	64	2.50
1 1/2"	79	3.12	64	2.50	79	3.12	76	3.00
2"	86	3.38	76	3.00	86	3.38	92	3.62
2 1/2"	92	3.62	92	3.62	92	3.62	108	4.25
3"	108	4.25	108	4.25	108	4.25	127	5.00
4"	121	4.75	140	5.50	121	4.75	159	6.25

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



TAPPO FEMMINA

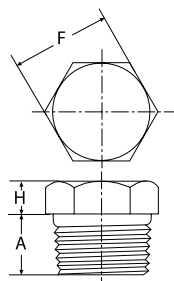
ANSI B16.11
3000 - 6000 LBS

CAPS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000						6000					
	P		D		G		P		D		G	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	25	1.00	19	0.75	5.0	0.19	27	1.06	25	1.00	6.5	0.25
3/8"	25	1.00	22	0.88	5.0	0.19	27	1.06	32	1.25	6.5	0.25
1/2"	32	1.25	29	1.12	6.5	0.25	33	1.31	38	1.50	8.0	0.31
3/4"	37	1.44	35	1.38	6.5	0.25	38	1.50	44	1.75	8.0	0.31
1"	41	1.62	44	1.75	9.5	0.38	43	1.69	57	2.25	11.0	0.44
1 1/4"	44	1.75	57	2.25	9.5	0.38	46	1.81	64	2.50	11.0	0.44
1 1/2"	44	1.75	64	2.50	11.0	0.44	48	1.88	76	3.00	12.5	0.50
2"	48	1.88	76	3.00	12.5	0.50	51	2.00	92	3.62	16.0	0.62
2 1/2"	60	2.38	92	3.62	16.0	0.62	64	2.50	108	4.25	19.0	0.75
3"	65	2.56	108	4.25	19.0	0.75	68	2.69	127	5.00	22.0	0.88
4"	68	2.69	140	5.50	22.0	0.88	75	2.94	159	6.25	28.5	1.12

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



TAPPO MASCHIO - TESTA ESAGONALE

ANSI B16.11
3000 - 6000 LBS

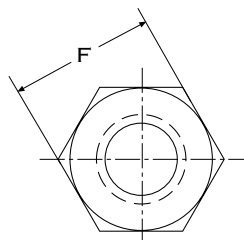
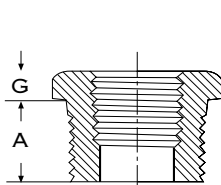
HEXAGON HEAD PLUGS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000 - 6000					
	A min.		F nominal		H min.	
	mm	inches	mm	inches	mm	inches
1/4"	11	0.44	16.0	0.62	6	0.25
3/8"	12.5	0.50	17.5	0.69	8	0.31
1/2"	14.5	0.56	22.0	0.88	8	0.31
3/4"	16.0	0.62	27.0	1.06	10	0.38
1"	19.0	0.75	35.0	1.38	10	0.38
1 1/4"	20.5	0.81	44.5	1.75	14	0.56
1 1/2"	20.5	0.81	51.0	2.00	16	0.62
2"	22.0	0.88	63.5	2.50	17	0.69
2 1/2"	27.0	1.06	76.0	3.00	19	0.75
3"	28.5	1.12	89.0	3.50	21	0.81
4"	32.0	1.25	117.5	4.62	25	1.00

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



RIDUZIONI MASCHIO-FEMMINA

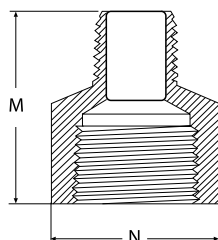
ANSI B16.11
3000 - 6000 LBS

HEX HEAD BUSHING

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000 - 6000					
	A min.		F nominal		G min.	
	mm	inches	mm	inches	mm	inches
3/8" x 1/4"	12.5	0.50	17.5	0.69	7	0.16
1/2" x 3/8"	14.5	0.56	22.0	0.88	5	0.19
1/2" x 1/4"	14.5	0.56	22.0	0.88	5	0.19
3/4" x 1/2"	16.0	0.62	27.0	1.06	6	0.22
3/4" x 1/4"	16.0	0.62	27.0	1.06	6	0.22
1" x 3/4"	19.0	0.75	35.0	1.38	6	0.25
1" x 1/2"	19.0	0.75	35.0	1.38	6	0.25
1" x 1/4"	19.0	0.75	35.0	1.38	6	0.25
1 1/4" x 1"	20.5	0.81	44.5	1.75	7	0.28
1 1/2" x 1"	20.5	0.81	51.0	2.00	8	0.31
1 1/2" x 3/4"	20.5	0.81	51.0	2.00	8	0.31
1 1/2" x 1/2"	20.5	0.81	51.0	2.00	8	0.31
2" x 1 1/2"	22.0	0.88	63.5	2.50	9	0.34
2" x 1"	22.0	0.88	63.5	2.50	9	0.34
2 1/2" x 2"	27.0	1.06	76.0	3.00	10	0.38
3" x 2"	28.5	1.12	89.0	3.50	10	0.41
4" x 3"	32.0	1.25	117.5	4.62	13	0.50
4" x 2"	32.0	1.25	117.5	4.62	13	0.50

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



RIDUZIONI FEMMINA-MASCHIO

ANSI B16.11
3000 LBS

FEMALE-MALE REDUCERS

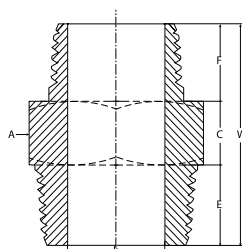
ANSI B16.11
3000 LBS

Diam. nominale Nominal pipe size	3000			
	M (1)		N (1)	
	mm	inches	mm	inches
3/8" x 1/4"	42	1.50	22	0.87
1/2" x 3/8"	49	1.81	28	1.10
1/2" x 1/4"	49	1.81	28	1.10
3/4" x 1/2"	59	2.01	35	1.38
1" x 3/4"	63	2.36	45	1.77
1" x 1/2"	61	2.36	45	1.77
1" x 1/4"	60	2.36	45	1.77
1 1/4" x 1"	68	2.68	60	2.24
1 1/2" x 1"	72	2.76	65	2.56
1 1/2" x 3/4"	67	2.76	65	2.56
1 1/2" x 1/2"	67	2.76	65	2.56
2" x 1/2"	70	2.95	76	2.99
2" x 1"	75	2.95	76	2.99
2 1/2" x 2"	92	3.74	95	3.74
3" x 2"	95	3.94	110	4.33
4" x 3"	113	4.33	140	5.51
4" x 2"	100	4.33	140	5.51

(1) Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



NIPPLI RIDOTTI

ANSI B16.11
3000 - 6000 LBS

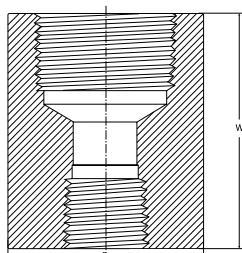
REDUCING HEXAGONAL NIPPLES

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size		A (mini)		E (mini)		F (mini)		C (mini)		W (mini)		b*			
inches	mm	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	3000		6000	
												mm	inches	mm	inches
1/4" x 1/8"	8 x 6	15	0.59	15	0.59	10	0.39	6	0.24	31	1.22	5	0.20	2	0.08
3/8" x 1/4"	10 x 8	18	0.71	16	0.63	15	0.59	8	0.31	39	1.54	8	0.31	6	0.24
1/2" x 3/8"	15 x 10	22	0.87	20	0.79	16	0.63	8	0.31	44	1.73	11	0.43	8	0.31
1/2" x 1/4"	15 x 8	22	0.87	20	0.79	15	0.59	8	0.31	43	1.69	8	0.31	6	0.24
3/4" x 1/2"	20 x 15	27	1.06	21	0.83	20	0.79	9	0.35	50	1.97	14	0.55	11	0.43
3/4" x 3/8"	20 x 10	27	1.06	21	0.83	16	0.63	9	0.35	46	1.81	11	0.43	8	0.31
1" x 3/4"	25 x 20	35	1.38	25	0.98	21	0.83	10	0.39	56	2.20	19	0.75	13	0.51
1" x 1/2"	25 x 15	35	1.38	25	0.98	20	0.79	10	0.39	55	2.17	14	0.55	11	0.43
1 1/2" x 1"	40 x 25	50	1.97	26	1.02	25	0.98	16	0.63	67	2.64	24	0.94	17	0.67
1 1/2" x 3/4"	40 x 20	50	1.97	26	1.02	21	0.83	16	0.63	63	2.48	19	0.75	13	0.51
1 1/2" x 1/2"	40 x 15	50	1.97	26	1.02	20	0.79	16	0.63	62	2.44	14	0.55	11	0.43
2" x 1 1/2"	50 x 40	62	2.44	27	1.06	26	1.02	17	0.67	70	2.76	38	1.50	30	1.18
2" x 1"	50 x 25	62	2.44	27	1.06	25	0.98	18	0.71	70	2.76	24	0.94	17	0.67
2" x 3/4"	50 x 20	62	2.44	27	1.06	21	0.83	17	0.67	65	2.60	19	0.75	13	0.51
2" x 1/2"	50 x 15	62	2.44	27	1.06	20	0.79	18	0.71	65	2.60	14	0.55	11	0.43

(*) La dimensione «b» è nominale e soggetta alle normali tolleranze di fabbricazione.
Dimension «b» is nominal and is subject to normal MANUFACTURE tolerances.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



MANICOTTO RIDOTTO

ANSI B16.11
3000 - 6000 LBS

REDUCING COUPLING

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	W ⁽¹⁾		D ⁽¹⁾		W ⁽¹⁾		D ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
3/8" x 1/4"	38.10	1.50	22.35	0.88	38.10	1.50	31.75	1.25
1/2" x 3/8"	47.75	1.88	28.45	1.12	47.75	1.88	38.10	1.50
1/2" x 1/4"	47.75	1.88	28.45	1.12	47.75	1.88	38.10	1.50
3/4" x 1/2"	50.80	2.00	35.05	1.38	50.80	2.00	44.45	1.75
3/4" x 1/4"	50.80	2.00	35.05	1.38	50.80	2.00	44.45	1.75
1" x 3/4"	60.45	2.38	44.45	1.75	60.45	2.38	57.15	2.25
1" x 1/2"	60.45	2.38	44.45	1.75	60.45	2.38	57.15	2.25
1" x 1/4"	60.45	2.38	44.45	1.75	60.45	2.38	57.15	2.25
1 1/4" x 1"	66.55	2.62	57.15	2.25	66.55	2.62	63.50	2.50
1 1/2" x 1"	79.25	3.12	63.50	2.50	79.25	3.12	76.20	3.00
1 1/2" x 3/4"	79.25	3.12	63.50	2.50	79.25	3.12	76.20	3.00
1 1/2" x 1/2"	79.25	3.12	63.50	2.50	79.25	3.12	76.20	3.00
2" x 1 1/2"	85.85	3.38	76.20	3.00	85.85	3.38	91.95	3.62
2" x 1"	85.85	3.38	76.20	3.00	85.85	3.38	91.95	3.62
2 1/2" x 2"	91.95	3.62	91.95	3.62	90.95	3.62	107.95	4.25
3" x 2"	107.95	4.25	107.95	4.25	107.95	4.25	127.00	5.00
4" x 3"	120.65	4.75	139.70	5.50	120.65	4.75	158.75	6.25
4" x 2"	120.65	4.75	139.70	5.50	120.65	4.75	158.75	6.25

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

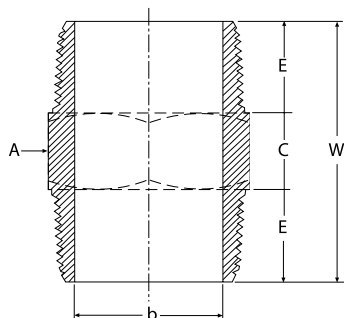
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

NIPPOLO

ANSI B16.11
3000 - 6000 LBS

HEXAGONAL NIPPLES

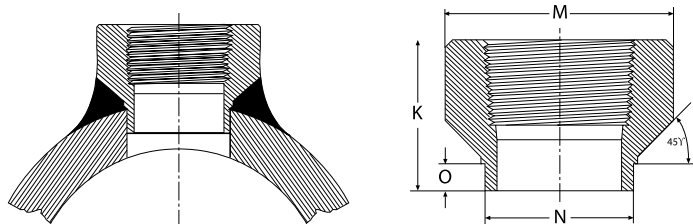
ANSI B16.11
3000 - 6000 LBS



Diam. nominale Nominal pipe size		A (mini)		E (mini)		C (mini)		W (mini)		b*			
inches	mm	mm	inches	mm	inches	mm	inches	mm	inches	3000		6000	
										mm	inches	mm	inches
1/8"	6	11	0.43	10	0.39	6	0.24	26	1.02	5	0.20	2	0.08
1/4"	8	15	0.59	15	0.59	6	0.24	36	1.42	8	0.31	6	0.24
3/8"	10	18	0.71	16	0.63	8	0.31	40	1.57	11	0.43	8	0.31
1/2"	15	22	0.87	20	0.79	8	0.31	48	1.89	14	0.55	11	0.43
3/4"	20	27	1.06	21	0.83	10	0.39	52	2.05	19	0.75	13	0.51
1"	25	35	1.38	25	0.98	10	0.39	60	2.36	24	0.94	17	0.67
1 1/2"	40	50	1.97	26	1.02	16	0.63	68	2.68	38	1.50	30	1.18
2"	50	62	2.44	27	1.06	17	0.67	71	2.80	49	1.93	39	1.54

(*) La dimensione «b» è nominale e soggetta alle normali tolleranze di fabbricazione.
Dimension «b» is nominal and is subject to normal MANUFACTURE tolerances.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



DERIVAZIONE FILETTATA

3000 - 6000 LBS

THREADED OUTLET

3000 - 6000 LBS

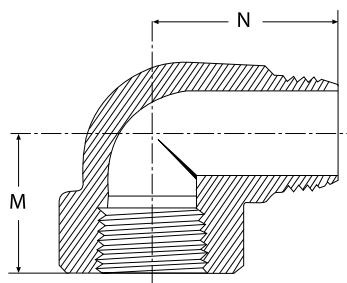
Diam. nominale Nominal pipe size	3000 - 6000					
	K ⁽¹⁾		M ⁽¹⁾		N ⁽¹⁾	
	mm	inches	mm	inches	mm	inches
1/4"	30.5	1.20	28.0	1.10	14.0	0.55
3/8"	30.5	1.20	32.0	1.26	17.4	0.69
1/2"	33.5	1.32	38.0	1.50	21.6	0.85
3/4"	35.0	1.38	44.5	1.75	26.9	1.06
1"	43.0	1.69	57.5	2.26	33.6	1.32
1 1/4"	48.0	1.89	63.5	2.50	42.4	1.67
1 1/2"	51.0	2.00	76.1	3.00	48.5	1.91
2"	57.5	2.26	92.0	3.62	60.9	2.40

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

DA 1/4" A 2" O = 9,5 mm
FROM 1/4" TO 2" O = 0,375 inch

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



GOMITI MASCHIO-FEMMINA A 90°

ANSI B16.11
3000 - 6000 LBS

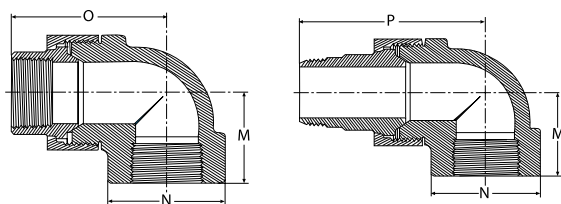
90° STREET ELBOWS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	M ⁽¹⁾		N ⁽¹⁾		M ⁽¹⁾		N ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	24.6	0.97	32.0	1.05	30.0	1.12	39.0	1.26
3/8"	30.0	1.12	39.0	1.26	33.5	1.31	44.0	1.39
1/2"	33.5	1.31	44.0	1.39	38.0	1.50	49.0	1.61
3/4"	38.0	1.50	49.0	1.61	46.5	1.75	59.0	1.97
1"	46.5	1.75	59.0	1.97	53.0	2.00	65.0	2.40
1 1/4"	53.0	2.00	65.0	2.40	62.0	2.27	75.0	2.75
1 1/2"	62.0	2.27	75.0	2.75	68.0	2.50	82.5	3.25
2"	68.0	2.50	82.5	3.25	82.5	3.25	110.0	4.33

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



GOMITO TRE PEZZI

ANSI B16.11
3000 LBS

UNION ELBOWS

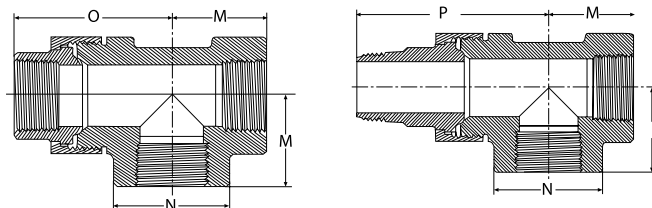
ANSI B16.11
3000 LBS

Diam. nominale Nominal pipe size		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
3000									
M ⁽¹⁾	mm	28.5	28.5	33	38	44.5	60.5	60.5	63.5
	inches	1.12	1.12	1.30	1.50	1.75	2.38	2.38	2.50
N ⁽¹⁾	mm	34	34	38	45.5	56.5	76	76	92
	inches	1.34	1.34	1.50	1.83	2.22	3.00	3.00	3.62
O ⁽¹⁾	mm	46.5	54	60	67	75	85	98	109
	inches	2.02	2.13	2.56	2.64	3.15	3.19	3.97	4.29
P ⁽¹⁾	mm	62	72	82	90	102	115	125	140
	inches	2.72	2.83	3.47	3.55	4.25	4.96	5.20	5.51

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



GIUNTO TRE PEZZI A T

ANSI B16.11
3000 LBS

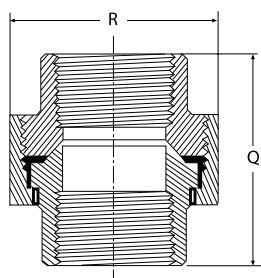
UNION TEES

ANSI B16.11
3000 LBS

Diam. nominale Nominal pipe size		1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
3000									
M ⁽¹⁾	mm	28.5	28.5	33	38	44.5	60.5	60.5	63.5
	inches	1.12	1.12	1.30	1.50	1.75	2.38	2.38	2.50
N ⁽¹⁾	mm	34	34	38	45.5	56.5	76	76	92
	inches	1.34	1.34	1.50	1.83	2.22	3.00	3.00	3.62
O ⁽¹⁾	mm	46.5	54	60	67	75	85	98	109
	inches	2.02	2.13	2.56	2.64	3.15	3.19	3.97	4.29
P ⁽¹⁾	mm	62	72	82	90	102	115	125	140
	inches	2.72	2.83	3.47	3.55	4.25	4.96	5.20	5.51

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1



GIUNTO TRE PEZZI FEMMINA-FEMMINA

ANSI B16.11
3000 - 6000 LBS

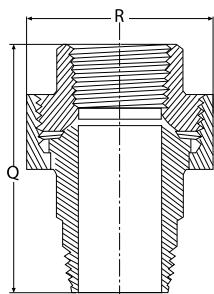
FEMALE-FEMALE UNIONS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale ND	3000				6000			
	Q ⁽¹⁾		R ⁽¹⁾		Q ⁽¹⁾		R ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	42.5	1.67	36.0	1.42	54.0	2.13	46.0	1.81
3/8"	47.5	1.87	41.0	1.62	57.0	2.25	51.0	2.00
1/2"	52.0	2.05	46.0	1.81	69.0	2.72	60.0	2.36
3/4"	57.0	2.25	56.0	2.20	72.0	2.84	72.0	2.84
1"	63.0	2.48	65.0	2.56	80.0	3.15	80.0	3.15
1 1/4"	68.0	2.76	80.0	3.07	89.0	3.50	94.0	3.70
1 1/2"	78.0	3.07	88.0	3.39	108.0	4.25	100.0	3.94
2"	91.0	3.50	105.0	4.06	114.0	4.49	122.0	4.80
2 1/2"	120.0	4.49	122.0	4.80	130.0	5.13	144.0	5.67
3"	140.0	5.12	144.0	5.67	150.0	5.91	180.0	7.09
4"	148.0	5.91	200.0	7.09				

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



GIUNTO TRE PEZZI MASCHIO-FEMMINA

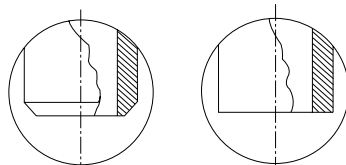
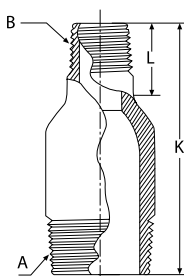
ANSI B16.11
3000 - 6000 LBS

MALE-FEMALE UNIONS

ANSI B16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	Q ⁽¹⁾		R ⁽¹⁾		Q ⁽¹⁾		R ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	61.0	2.48	32.0	1.26	82.5	2.86	46.0	1.81
3/8"	69.0	2.72	38.0	1.50	77.0	3.03	51.0	2.00
1/2"	75.0	3.03	46.0	1.81	94.5	3.72	60.0	2.36
3/4"	80.0	3.15	56.0	2.00	98.5	3.88	72.0	2.84
1"	90.0	3.82	65.0	2.36	108.0	4.25	80.0	3.15
1 1/4"	98.0	3.98	80.0	2.84	120.0	4.72	94.0	3.70
1 1/2"	100.0	4.33	88.0	3.15	138.0	5.44	100.0	3.94
2"	120.0	4.72	105.0	3.70	146.0	5.75	122.0	4.80

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.



NIPPLI DA TUBO A BOTTIGLIA

3000 - 6000 LBS

SWAGE NIPPLES

3000 - 6000 LBS

Diam. nominale Nominal pipe size A x B	3000 - 6000				Spessore conforme a ANSI B 36-10-1985 Thickness according to ANSI B 36-10-1985		
	K ⁽¹⁾		L ⁽¹⁾				
	mm	inches	mm	inches			
3/8" x 1/4"	76	2.36	20	0.79	Sch 40	Sch 80	–
1/2" x 3/8"	89	2.36	20	0.79	Sch 40	Sch 80	–
1/2" x 1/4"	89	2.36	20	0.79	Sch 40	Sch 80	–
3/4" x 1/2"	95	2.75	21	0.83	Sch 40	Sch 80	Sch 160
3/4" x 1/4"	95	2.75	21	0.83	Sch 40	Sch 80	–
1" x 3/4"	102	3.55	22	0.87	Sch 40	Sch 80	Sch 160
1" x 1/2"	102	3.55	22	0.87	Sch 40	Sch 80	Sch 160
1" x 1/4"	102	3.55	25	0.98	Sch 40	Sch 80	Sch 160
1 1/4" x 1"	114	4.53	25	0.98	Sch 40	Sch 80	Sch 160
1 1/2" x 1"	114	4.53	25	0.98	Sch 40	Sch 80	Sch 160
1 1/2" x 3/4"	114	4.53	25	0.98	Sch 40	Sch 80	Sch 160
1 1/2" x 1/2"	165	6.50	30	1.18	Sch 40	Sch 80	Sch 160
2" x 1 1/2"	165	6.50	30	1.18	Sch 40	Sch 80	Sch 160
2" x 1"	165	6.50	30	1.18	Sch 40	Sch 80	Sch 160
2 1/2" x 2"	178	7.01	35	1.38	Sch 40	Sch 80	Sch 160
3" x 2"	203	8.00	40	1.57	Sch 40	Sch 80	Sch 160
4" x 3"	229	9.06	45	1.77	Sch 40	Sch 80	Sch 160
4" x 2"	229	9.06	45	1.77	Sch 40	Sch 80	Sch 160

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Filettatura conforme a ANSI B 1.20.1 – Thread according to ANSI B 1.20.1

NOTE - NOTES:

Estremità a saldare secondo ANSI B 16.25 – Buttwelding ends according to ANSI B 16.25

Estremità filettate secondo ANSI B 1.20.1 – Thread ends according to ANSI B 1.20.1

Tolleranze su diametro e spessore secondo ASTM A 106 – Variations in outside diameter and thickness according to ASTM A 106

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

CODICI UTILIZZATI PER LA DESCRIZIONE DEGLI SWEDGE NIPPLES

(nippli ridotti)

P.B.E.	Due estremità lisce	
P.L.E.	Diametro maggiore liscio	
P.S.E.	Diametro inferiore liscio	
B.B.E.	Due estremità smussate	
B.L.E.	Diametro maggiore smussato	
B.S.E.	Diametro inferiore smussato	
T.B.E.	Due estremità filettate	
T.L.E.	Diametro maggiore filettato	
T.S.E.	Diametro inferiore filettato	
B.O.E.	Un'estremità smussata	si applicano solo ai nippli da tubo
P.O.E.	Un'estremità liscia	
T.O.E.	Un'estremità filettata	

Si possono utilizzare due codici per lo stesso pezzo. Esempio:

1 Swage Nipple 3 X 2 BLE/TSE

Dunque:

- DIAMETRO MAGGIORE SMUSSATO
- DIAMETRO MINORE FILETTATO

CODE USED IN MATERIAL LIST OF SWEDGE NIPPLES (reduced nipples)

P.B.E.	Plain both ends	
P.L.E.	Plain large end	
P.S.E.	Plain small end	
B.B.E.	Beveled both ends	
B.L.E.	Beveled large end	
B.S.E.	Beveled small end	
T.B.E.	Threaded both ends	
T.L.E.	Threaded large end	
T.S.E.	Threaded small end	
B.O.E.	Beveled one end	for barrel nipples only
P.O.E.	Plain one end	
T.O.E.	Threaded one end	

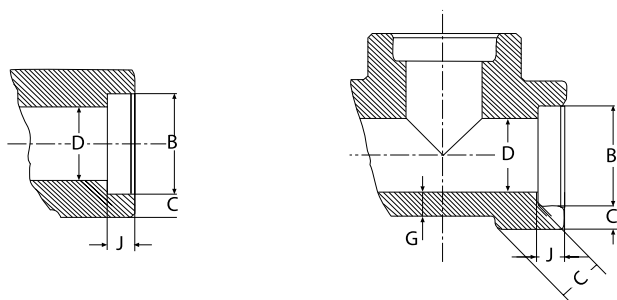
Two codes may be used on the same item for example:

1 Swage Nipple 3 X 2 BLE/TSE

Which means:

- BEVELED LARGE END
- THREADED SMALL END





DIMENSIONI DEI SOCKET WELDING

ANSI B 16.11

DIMENSIONS OF SOCKET WELDING FITTINGS

ANSI B 16.11

Dimensioni richieste per la saldatura di componenti da saldare a tasca

Welding dimensions required for socket-welding components

Dimensioni in mm Dimensions in mm

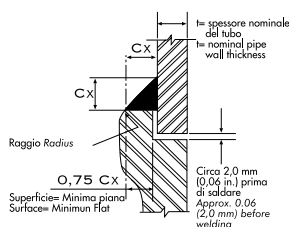
Diametro nominale		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
B	mini	10.65	14.10	17.55	21.70	27.05	33.80	42.55	48.65	61.10	73.80	89.80	115.45
	maxi	10.90	14.35	17.80	21.95	27.30	34.05	42.80	48.90	61.35	74.20	90.15	115.80
D	3000 ib	mini	6.10	8.50	11.80	15.00	20.20	25.90	34.30	40.10	51.70	61.20	76.40
		maxi	7.60	10.00	13.30	16.60	21.70	27.40	35.80	41.70	53.50	64.20	79.50
	6000 ib	mini	3.20	5.60	8.40	15.00	14.80	19.90	28.70	33.20	42.10		
		maxi	4.80	7.10	9.90	12.50	16.30	21.50	30.20	34.70	43.60		
C ⁽¹⁾	3000 ib	medio	3.20	3.80	4.00	4.65	4.90	5.70	6.05	6.35	6.95	8.75	9.50
		mini	3.20	3.30	3.50	4.10	4.25	5.00	5.30	5.55	6.05	7.65	8.30
	6000 ib	medio	3.95	4.60	5.05	5.95	6.95	7.90	7.90	8.90	10.90		
		mini	3.45	4.00	4.35	5.20	6.05	6.95	6.95	7.80	9.50		
G mini.	3000 ib	2.40	3.00	3.20	3.75	3.90	4.55	4.85	5.10	5.55	7.00	7.60	8.55
	6000 ib	3.15	3.70	4.00	4.80	5.55	6.35	6.35	7.15	8.75			
J mini.		10.00	10.00	10.00	10.00	13.00	13.00	13.00	13.00	16.00	16.00	16.00	19.00

Dimensioni in pollici Dimensions in inches

Nominal pipe size		1/8"	1/4"	3/8"	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"
B	mini	0.420	0.555	0.690	0.855	1.065	1.330	1.675	1.915	2.406	2.906	3.535	4.545
	maxi	0.430	0.565	0.700	0.865	1.075	1.340	1.685	1.925	2.416	2.961	3.550	4.560
D	3000 ib	mini	0.239	2.334	0.463	0.592	0.794	1.019	1.350	1.580	2.037	2.409	3.008
		maxi	0.299	0.394	0.523	0.652	0.854	1.079	1.410	1.640	2.097	2.529	3.128
	6000 ib	mini	0.126	0.220	0.329	0.434	0.582	0.785	1.130	1.308	1.657		
		maxi	0.189	0.280	0.389	0.494	0.642	0.845	1.190	1.368	1.717		
C ⁽¹⁾	3000 ib	medium	0.125	0.149	0.158	0.184	0.193	0.224	0.239	0.250	0.273	0.345	0.375
		mini	0.125	0.130	0.138	0.161	0.168	0.196	0.208	0.218	0.238	0.302	0.327
	6000 ib	medium	0.156	0.181	0.198	0.235	0.274	0.312	0.312	0.351	0.430		
		mini	0.135	0.158	0.172	0.204	0.238	0.273	0.273	0.307	0.374		
G mini.	3000 ib	0.095	0.119	0.126	0.147	0.154	0.179	0.191	0.200	0.218	0.276	0.300	0.337
	6000 ib	0.124	0.145	0.158	0.188	0.219	0.250	0.250	0.281	0.344			
J mini.		0.38	0.38	0.38	0.38	0.50	0.50	0.50	0.50	0.62	0.62	0.62	0.75

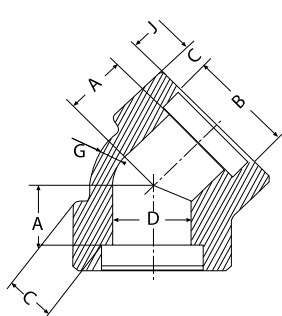
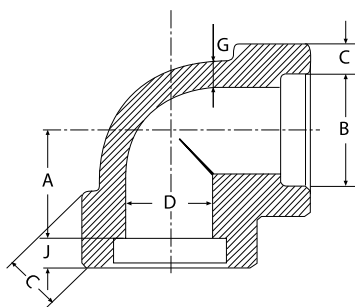
⁽¹⁾ Lo spessore medio del finale della parete del raccordo non sarà inferiore ai valori elencati. I valori minimi sono autorizzati su superfici delimitate.

Average of socket wall thickness around periphery shall be no less than listed values. The minimum values are permitted in localized areas.



Cx (min.) = 1.09 t, ma non meno di 3 mm (0,12 in.)
Cx (min.) = 1.09 t, but not less than 0,12 mm (3,0 mm.)

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



GOMITI

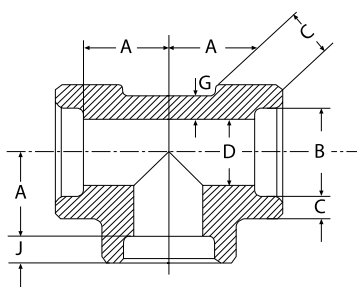
ANSI B 16.11
3000 - 6000 LBS

ELBOWS

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	Dal centro alla base del raccordo A Center to bottom of socket A									
	90°				45°				Tolleranze ± Tolerances ±	
	3000		6000		3000		6000			
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	11.0	0.44	13.5	0.53	8.0	0.31	8.0	0.31	1.0	0.03
3/8"	13.5	0.53	15.5	0.62	7.5	0.31	11.5	0.44	1.5	0.06
1/2"	15.5	0.62	19.5	0.75	11.5	0.44	12.5	0.50	1.5	0.06
3/4"	19.5	0.75	22.5	0.88	12.5	0.50	14.5	0.56	1.5	0.06
1"	22.0	0.88	27.0	1.06	14.0	0.56	17.0	0.69	2.0	0.08
1 1/4"	27.0	1.06	32.0	1.25	17.0	0.69	21.0	0.81	2.0	0.08
1 1/2"	32.0	1.25	38.0	1.50	21.0	0.81	25.0	1.00	2.0	0.08
2"	38.0	1.50	41.0	1.62	25.0	1.00	29.0	1.12	2.0	0.08
2 1/2"	41.5	1.62			29.0	1.12			2.5	0.10
3"	57.5	2.25			31.5	1.25			2.5	0.10
4"	66.5	2.62			41.5	1.62			2.5	0.10

- Per quote B - C - D - G - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - C - D - G - J refer to dimensions of s.w. fittings shown in page 134



TEES S.W.

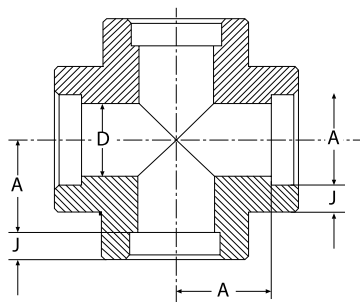
ANSI B 16.11
3000 - 6000 LBS

TEES S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	Dal centro alla base del raccordo A Center to bottom of socket A					
	3000		6000		Tolleranze ± Tolerances ±	
	mm	inches	mm	inches	mm	inches
1/4"	11.0	0.44	13.5	0.53	1.0	0.03
3/8"	13.5	0.53	15.5	0.62	1.5	0.06
1/2"	15.5	0.62	19.5	0.75	1.5	0.06
3/4"	19.5	0.75	22.5	0.88	1.5	0.06
1"	22.0	0.88	27.0	1.06	2.0	0.08
1 1/4"	27.0	1.06	32.0	1.25	2.0	0.08
1 1/2"	32.0	1.25	38.0	1.50	2.0	0.08
2"	38.0	1.50	41.0	1.62	2.0	0.08
2 1/2"	41.5	1.62			2.5	0.10
3"	57.5	2.25			2.5	0.10
4"	66.5	2.62			2.5	0.10

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



CROCI S.W.

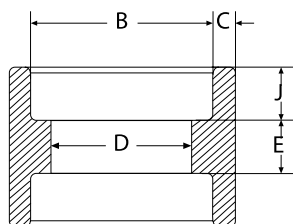
ANSI B 16.11
3000 - 6000 LBS

CROSSES S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	Dal centro alla base del raccordo A Center to bottom of socket A					
	3000		6000		Tolleranze ± Tolerances ±	
	mm	inches	mm	inches	mm	inches
1/4"	11.0	0.44	13.5	0.53	1.0	0.03
3/8"	13.5	0.53	15.5	0.62	1.5	0.06
1/2"	15.5	0.62	19.5	0.75	1.5	0.06
3/4"	19.5	0.75	22.5	0.88	1.5	0.06
1"	22.0	0.88	27.0	1.06	2.0	0.08
1 1/4"	27.0	1.06	32.0	1.25	2.0	0.08
1 1/2"	32.0	1.25	38.0	1.50	2.0	0.08
2"	38.0	1.50	41.0	1.62	2.0	0.08
2 1/2"	41.5	1.62			2.5	0.10
3"	57.5	2.25			2.5	0.10
4"	66.5	2.62			2.5	0.10

- Per quote B - C - D - G - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - C - D - G - J refer to dimensions of s.w. fittings shown in page 134



MANICOTTI S.W.

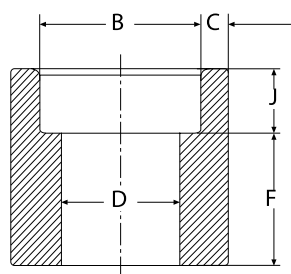
ANSI B 16.11
3000 - 6000 LBS

COUPLINGS S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	Coste di montaggio / Laying lengths											
	Manicotti / Couplings - E						Mezzi manicotti / Half couplings - F					
	3000		6000		Tolleranze ± Tolerances ±		3000		6000		Tolleranze ± Tolerances ±	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	6.5	0.25	6.5	0.25	1.5	0.06	16.0	0.62	16.0	0.62	1.0	0.03
3/8"	6.5	0.25	6.5	0.25	3.0	0.12	17.5	0.69	17.5	0.69	1.5	0.06
1/2"	9.5	0.38	9.5	0.38	3.5	0.12	22.5	0.88	22.5	0.88	1.5	0.06
3/4"	9.5	0.38	9.5	0.38	3.5	0.12	23.5	0.94	23.5	0.94	1.5	0.06
1"	13.0	0.50	13.0	0.50	4.0	0.16	29.0	1.12	29.0	1.12	2.0	0.08
1 1/4"	13.0	0.50	13.0	0.50	4.0	0.16	30.0	1.19	30.0	1.19	2.0	0.08
1 1/2"	13.0	0.50	13.0	0.50	4.0	0.16	32.0	1.25	32.0	1.25	2.0	0.08
2"	19.0	0.75	19.0	0.75	4.0	0.16	41.0	1.62	41.0	1.62	2.0	0.08
2 1/2"	19.0	0.75	19.0	0.75	5.0	0.20	42.5	1.69	42.5	1.69	2.5	0.10
3"	19.0	0.75	19.0	0.75	5.0	0.20	44.5	1.75	44.5	1.75	2.5	0.10
4"	19.0	0.75	19.0	0.75	5.0	0.20	47.5	1.88	47.5	1.88	2.5	0.10

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



MEZZI MANICOTTI S.W.

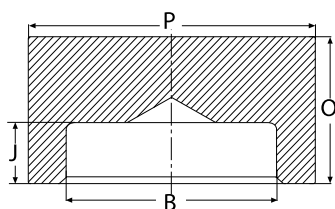
ANSI B 16.11
3000 - 6000 LBS

HALF-COUPPLINGS S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	Coste di montaggio / Laying lengths											
	Manicotti / Couplings - E						Mezzi manicotti / Half couplings - F					
	3000		6000		Tolleranze ± Tolerances ±		3000		6000		Tolleranze ± Tolerances ±	
	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	6.5	0.25	6.5	0.25	1.5	0.06	16.0	0.62	16.0	0.62	1.0	0.03
3/8"	6.5	0.25	6.5	0.25	3.0	0.12	17.5	0.69	17.5	0.69	1.5	0.06
1/2"	9.5	0.38	9.5	0.38	3.5	0.12	22.5	0.88	22.5	0.88	1.5	0.06
3/4"	9.5	0.38	9.5	0.38	3.5	0.12	23.5	0.94	23.5	0.94	1.5	0.06
1"	13.0	0.50	13.0	0.50	4.0	0.16	29.0	1.12	29.0	1.12	2.0	0.08
1 1/4"	13.0	0.50	13.0	0.50	4.0	0.16	30.0	1.19	30.0	1.19	2.0	0.08
1 1/2"	13.0	0.50	13.0	0.50	4.0	0.16	32.0	1.25	32.0	1.25	2.0	0.08
2"	19.0	0.75	19.0	0.75	4.0	0.16	41.0	1.62	41.0	1.62	2.0	0.08
2 1/2"	19.0	0.75	19.0	0.75	5.0	0.20	42.5	1.69	42.5	1.69	2.5	0.10
3"	19.0	0.75	19.0	0.75	5.0	0.20	44.5	1.75	44.5	1.75	2.5	0.10
4"	19.0	0.75	19.0	0.75	5.0	0.20	47.5	1.88	47.5	1.88	2.5	0.10

- Per quote B - C - D - G - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - C - D - G - J refer to dimensions of s.w. fittings shown in page 134



TAPPO FEMMINA S.W.

ANSI B 16.11
3000 - 6000 LBS

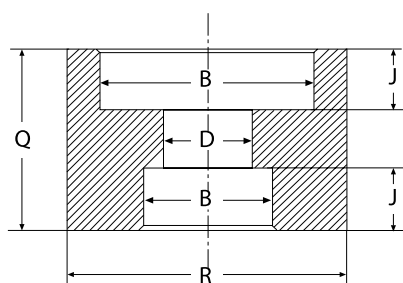
CAPS S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	O ⁽¹⁾		P ⁽¹⁾		O ⁽¹⁾		P ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	20	0.59	22	0.87	17.5	0.69	23.1	0.91
3/8"	20	0.67	26	1.02	19.1	0.75	26.7	1.05
1/2"	20	0.75	32	1.26	22	0.87	34	1.34
3/4"	25	0.91	38	1.50	26	1.02	41	1.61
1"	26	1.02	45	1.77	28	1.10	50	1.97
1 1/4"	30	1.10	55	2.17	30	1.18	58	2.28
1 1/2"	31	1.18	60	2.56	32	1.26	66.5	2.62
2"	38	1.42	75	2.95	38	1.50	85	3.35
2 1/2"	41	1.50	95	3.62	42	1.65	100	3.94
3"	43	1.65	110	4.33	45	1.77	120	4.72
4"	48	1.89	140	5.51	51	2.01	150	5.91

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.


MANICOTTI RIDOTTI S.W.

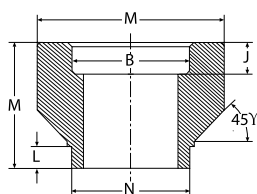
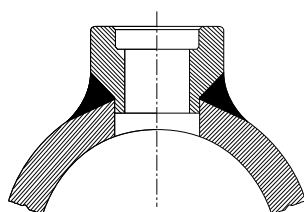
ANSI B 16.11
3000 - 6000 LBS

REDUCING COUPLINGS S.W.

ANSI B 16.11
3000 - 6000 LBS

Diam. nominale Nominal pipe size	3000				6000			
	Q ⁽¹⁾		R ⁽¹⁾		Q ⁽¹⁾		R ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
3/8" x 1/4"	25.4	1	24.9	0.98	25.4	1	26.7	1.05
1/2" x 3/8"	28.7	1.13	31.0	1.22	28.7	1.13	33.0	1.30
1/2" x 1/4"	28.7	1.13	31.0	1.22	28.7	1.13	33.0	1.30
3/4" x 1/2"	35.0	1.38	36.0	1.42	35.0	1.38	40.1	1.58
3/4" x 1/4"	35.0	1.38	36.0	1.42	35.0	1.38	40.1	1.58
1" x 3/4"	38.1	1.50	45.2	1.78	38.1	1.50	50.0	1.97
1" x 1/2"	38.1	1.50	45.2	1.78	38.1	1.50	50.0	1.97
1" x 1/4"	38.1	1.50	45.2	1.78	38.1	1.50	50.0	1.97
1 1/4" x 1"	38.1	1.50	55.1	2.17	38.1	1.50	57.9	2.28
1 1/2" x 1"	38.1	1.50	60.0	2.36	38.1	1.50	65.0	2.56
1 1/2" x 3/4"	38.1	1.50	60.0	2.36	38.1	1.50	65.0	2.56
1 1/2" x 1/2"	38.1	1.50	60.0	2.36	38.1	1.50	65.0	2.56
2" x 1/2"	51.3	2.02	74.9	2.95	51.3	2.02	82.0	3.23
2" x 1"	51.3	2.02	74.9	2.95	51.3	2.02	82.0	3.23

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.


DERIVAZIONE S.W.

ANSI B 16.11
3000 - 6000 LBS

SOCKET WELDING OUTLET

ANSI B 16.11
3000 - 6000 LBS

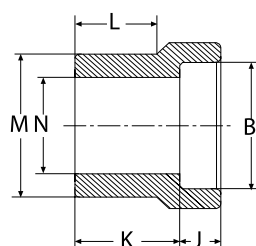
- Per quote B - D - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - D - J refer to dimensions of s.w. fittings shown in page 134

Diam. nominale Nominal pipe size	3000 - 6000					
	K ⁽¹⁾		M ⁽¹⁾		N ⁽¹⁾	
	mm	inches	mm	inches	mm	inches
1/4"	30.5	1.20	28.0	1.10	14.0	0.55
3/8"	30.5	1.20	32.0	1.26	17.4	0.69
1/2"	33.5	1.32	38.0	1.50	21.6	0.85
3/4"	35.0	1.38	44.5	1.75	26.9	1.06
1"	43.0	1.69	57.5	2.26	33.6	1.32
1 1/4"	48.0	1.89	63.5	2.50	42.4	1.67
1 1/2"	51.0	2.00	76.1	3.00	48.5	1.91
2"	57.5	2.26	92.0	3.62	60.9	2.40

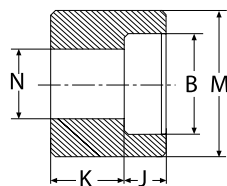
⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.

DA 1/4" A 2" L = 9,5 mm
FROM 1/4" TO 2" L = 0,375 inch

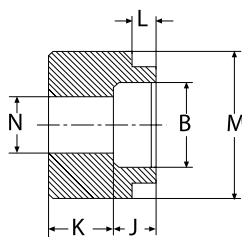
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



Type 1



Type 2



Type 3

RIDUZIONI MASCHIO-FEMMINA S.W.

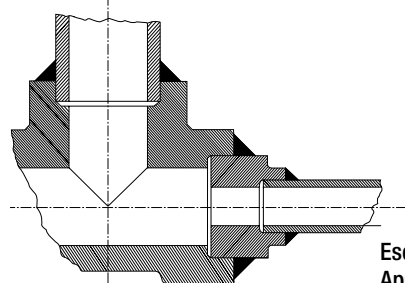
ANSI B 16.11
3000 LBS

REDUCER INSERTS S.W.

ANSI B 16.11
3000 LBS

Diam. nominale Nominal pipe size	TIPO TYPE	M ⁽¹⁾		N ⁽¹⁾		K ⁽¹⁾		L ⁽¹⁾	
		mm	inches	mm	inches	mm	inches	mm	inches
1/2" x 3/8"	1	21.6	0.850	11	0.44	24	0.94	20	0.78
1/2" x 1/4"	2	21.6	0.850	7.5	0.30	15.5	0.62		
1/2" x 1/8"	3	21.6	0.850	5.5	0.22	15.5	0.62	7	0.28
3/4" x 1/2"	1	26.9	1.060	14	0.56	27	1.06	22	0.87
3/4" x 3/8"	2	26.9	1.060	11	0.44	15.5	0.62		
3/4" x 1/4"	3	26.9	1.060	7.5	0.30	15.5	0.62	7	0.28
3/4" x 1/8"	3	26.9	1.060	5.5	0.22	15.5	0.62	7	0.28
1" x 3/4"	1	33.6	1.325	19	0.75	28.5	1.12	23	0.91
1" x 1/2"	2	33.6	1.325	14	0.56	24	0.94		
1" x 3/8"	3	33.6	1.325	11	0.44	23	0.90	7	0.28
1" x 1/4"	3	33.6	1.325	7.5	0.30	24	0.94	7	0.28
1 1/4" x 1"	1	42.4	1.670	24.5	0.97	31.5	1.25	24.5	0.97
1 1/4" x 3/4"	2	42.4	1.670	19	0.75	22	0.87		
1 1/4" x 1/2"	3	42.4	1.670	14	0.56	24.5	0.97	7	0.28
1 1/2" x 1 1/4"	1	48.5	1.970	32.5	1.28	33.5	1.31	27	1.06
1 1/2" x 1"	2	48.5	1.910	24.5	0.97	33.5	1.31		
1 1/2" x 3/4"	3	48.5	1.910	19	0.75	22	0.87	8	0.32
1 1/2" x 1/2"	3	48.5	1.910	14	0.56	26	1.03	7	0.28
2" x 1 1/2"	2	60.9	2.400	38	1.50	27	1.06		
2" x 1 1/4"	3	60.9	2.400	32.5	1.28	25.5	1.00	8	0.32
2" x 1"	3	60.9	2.400	24.5	0.97	25.5	1.00	8	0.32
2" x 3/4"	3	60.9	2.400	19	0.75	25.5	1.00	8	0.32
2" x 1/2"	3	60.9	2.400	14	0.56	29.5	1.16	7	0.28
2 1/2" x 2"	1	79.6	2.900	49	1.93	41.5	1.63	30	1.19
2 1/2" x 1 1/2"	3	79.6	2.900	38	1.50	27.5	1.09	8	0.32
2 1/2" x 1 1/4"	3	79.6	2.900	32.5	1.28	29.5	1.16	8	0.32
2 1/2" x 1"	3	79.6	2.900	24.5	0.97	29.5	1.16	8	0.32
3" x 2 1/2"	1	89.6	3.530	59	2.32	46	1.81	33.5	1.32
3" x 2"	3	89.6	3.530	49	1.93	41.5	1.63	10	0.40
3" x 1 1/2"	3	89.6	3.530	38	1.50	42	1.66	8	0.32
3" x 1 1/4"	3	89.6	3.530	32.5	1.28	42.5	1.67	8	0.32
3" x 1"	3	89.6	3.530	24.5	0.97	39	1.53	8	0.32

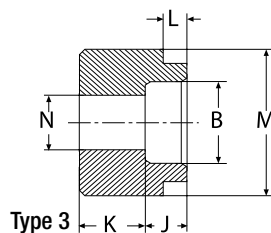
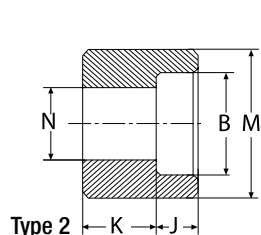
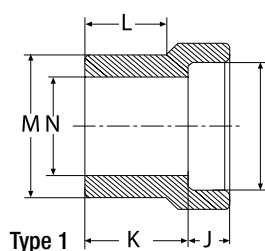
⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.



Esempio di utilizzo di una riduzione maschio/femmina
Application of reducer insert

- Per quote B - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - J refer to dimensions of s.w. fittings shown in page 134

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



RIDUZIONI MASCHIO-FEMMINA S.W.

ANSI B 16.11
6000 LBS

REDUCER INSERTS S.W.

ANSI B 16.11
6000 LBS

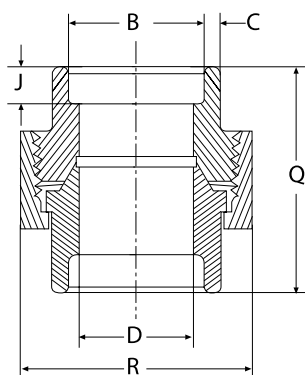
• Per quote B - J si vedano caratteristiche dimensionali a pag. 134

• For dimensions B - J refer to dimensions of s.w. fittings shown in page 134

Diam. nominale Nominal pipe size	TIPO TYPE	M ⁽¹⁾		N ⁽¹⁾		K ⁽¹⁾		L ⁽¹⁾	
		mm	inches	mm	inches	mm	inches	mm	inches
1/2" x 3/8"	1	21.6	0.850	11	0.44	30	1.19	21	0.83
3/4" x 1/2"	1	26.9	1.060	12	0.47	33.5	1.31	23	0.90
3/4" x 3/8"	2	26.9	1.060	11	0.44	25.5	1.00		
1" x 3/4"	1	33.6	1.325	15.5	0.61	42	1.66	26	1.03
1" x 1/2"	1	33.6	1.325	12	0.47	40	1.58	24	0.94
1" x 3/8"	3	33.6	1.325	11	0.44	28.5	1.12	7	0.28
1 1/4" x 1"	1	42.4	1.670	20.5	0.81	43	1.70	28	1.11
1 1/4" x 3/4"	1	42.4	1.670	15.5	0.61	43	1.70	28	1.11
1 1/4" x 1/2"	2	42.4	1.670	12	0.47	32	1.26		
1 1/4" x 3/8"	3	42.4	1.670	11	0.44	32.5	1.28	7	0.28
1 1/2" x 1 1/4"	1	48.5	1.910	29.5	1.16	51	2.01	32	1.27
1 1/2" x 1"	1	48.5	1.910	20.5	0.81	49	1.93	28	1.11
1 1/2" x 3/4"	2	48.5	1.910	15.5	0.61	35	1.38		
1 1/2" x 1/2"	3	48.5	1.910	12	0.47	39	1.53	7	0.28
2" x 1 1/2"	1	60.9	2.400	34	1.34	46	1.81	34	1.34
2" x 1 1/4"	1	60.9	2.400	29.5	1.16	47.5	1.87	34	1.34
2" x 1"	3	60.9	2.400	20.5	0.81	36	1.42	8	0.32
2" x 3/4"	3	60.9	2.400	15.5	0.61	36	1.42	8	0.32
2" x 1/2"	3	60.9	2.400	12	0.47	39	1.53	7	0.28
2 1/2" x 2"	1	73.6	2.900	43	1.70	54	2.13	36	1.42
2 1/2" x 1 1/2"	2	73.6	2.900	34	1.34	47.5	1.87		
2 1/2" x 1 1/4"	3	73.6	2.900	29.5	1.16	42	1.66	8	0.32
2 1/2" x 1"	3	73.6	2.900	20.5	0.81	44	1.73	8	0.32
2 1/2" x 3/4"	3	73.6	2.900	15.5	0.61	44	1.73	8	0.32
2 1/2" x 1/2"	3	73.6	2.900	12	0.47	46.5	1.83	7	0.28
3" x 2 1/2"	1	89.6	3.530	54	2.13	63.5	2.50	38	1.50
3" x 2"	2	89.6	3.530	43	1.70	54	2.13		
3" x 1 1/2"	3	89.6	3.530	34	1.34	47.5	1.87	8	0.32
3" x 1 1/4"	3	89.6	3.530	29.5	1.16	49.6	1.95	8	0.32
3" x 1"	3	89.6	3.530	20.5	0.81	48.5	1.91	8	0.32

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
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GIUNTO TRE PEZZI

ANSI B 16.11
3000 - 6000 LBS

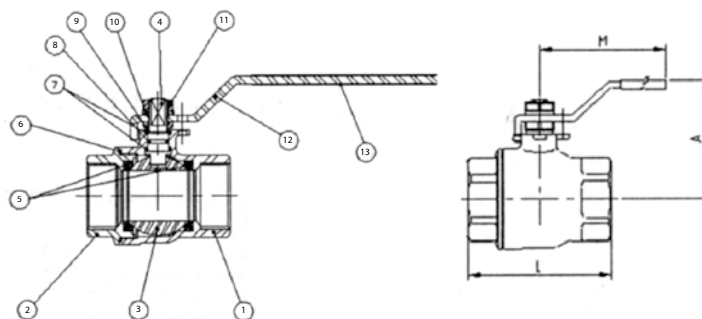
UNIONS

ANSI B 16.11
3000 - 6000 LBS

- Per quote B - C - D - J si vedano caratteristiche dimensionali a pag. 134
- For dimensions B - C - D - J refer to dimensions of s.w. fittings shown in page 134

Diam. nominale Nominal pipe size	3000				6000			
	Q ⁽¹⁾		R ⁽¹⁾		Q ⁽¹⁾		R ⁽¹⁾	
	mm	inches	mm	inches	mm	inches	mm	inches
1/4"	42.5	1.67	36.0	1.42	54.0	2.13	46.0	1.81
3/8"	47.5	1.87	41.0	1.62	57.0	2.25	51.0	2.00
1/2"	52.0	2.05	46.0	1.81	69.0	2.72	60.0	2.36
3/4"	57.0	2.25	56.0	2.20	72.0	2.84	72.0	2.84
1"	63.0	2.48	65.0	2.56	80.0	3.15	80.0	3.15
1 1/4"	68.0	2.76	80.0	3.07	89.0	3.50	94.0	3.70
1 1/2"	78.0	3.07	88.0	3.39	108.0	4.25	100.0	3.94
2"	91.0	3.50	105.0	4.06	114.0	4.49	122.0	4.80
2 1/2"	120.0	4.49	122.0	4.80				
3"	120.0	5.12	144.0	5.67				
4"	148.0	5.91	200.0	7.09				

⁽¹⁾ Le dimensioni non elencate nell'ANSI B 16.11-1980 e BS 3799-1974 possono variare a seconda del produttore.
Dimensions not listed in ANSI B 16.11-1980 and BS 3799-1974 may vary according to the manufacturer.



ART. 621 VALVOLA A SFERA INOX, 2 PEZZI, PASSAGGIO TOTALE

CERTIFICATI EN 10204/2.1

ESECUZIONE SPECIALE: A RICHIESTA FILETTATURA NPT

CARATTERISTICHE TECNICHE

1. Valvola inox passaggio totale, 2 pezzi
2. Filettatura delle estremità gas EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Acciaio AISI 316 (CF8M)
4. Sede sfera in PTFE + 15% fibra di vetro
5. Stelo anti-espulsione
6. O'ring dello stelo in Viton
7. Guarnizione dello stelo in PTFE
8. Sistema di bloccaggio
9. Pressione massima 63 Kg/cm²
10. Temperatura d'esercizio - 25 °C + 180 °C

ART. 621 STAINLESS STEEL FULL PORT BALL VALVE, 2 PIECES

CERTIFICATES EN 10204/2.1

SPECIAL EXECUTION: THREADING ON REQUEST NPT

TECHNICAL INFORMATION

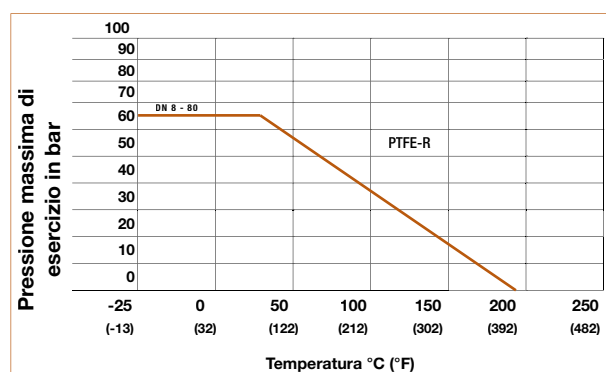
1. Stainless steel full port ball valve, 2 pieces
2. Thread ends according gas EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Made of AISI 316 (CF8M)
4. Ball seats PTFE + 15% G.F.
5. Blow-out proof stem
6. Viton o'ring stem
7. Stem gasket PTFE
8. Locking system
9. Max.. Working pressure 63 Kg/cm²
10. Working temperature -25 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)				Peso Weight (Kg)
			P	A	L	M	
1/4"	IV6211/4	63	11	50	50	104	0.20
3/8"	IV6213/8	63	12.7	50	50	104	0.19
1/2"	IV6211/2	63	15	51.5	55	104	0.23
3/4"	IV6213/4	63	20.6	62	70	122	0.44
1"	IV6211	63	25.4	65	83	122	0.60
1 1/4"	IV62111/4	63	31.8	82	91	180	1.08
1 1/2"	IV62111/2	63	38.1	88	103	205	1.54
2"	IV6212	63	50.8	106	120	219	2.64
2 1/2"	IV62121/2	63	65	119	152	240	4.70
3"	IV6213	63	80	135	172	275	7.28

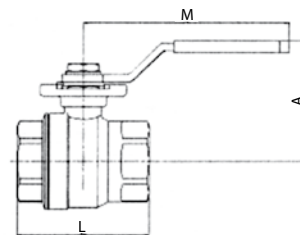
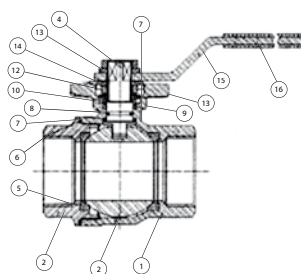
P= diametro foro sfera /ball hole diameter

CURVA PRESSIONE TEMPERATURA PRESSURE TEMPERATURE RATING



N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316/SS 316	Ruvida/Shot blasting
2	Coperchio / Cap	Inox Aisi 316/SS 316	Ruvida/Shot blasting
3	Sfera / Ball	Inox Aisi 316/SS 316	---
4	Stelo / Stem	Inox Aisi 316/SS 316	---
5	Guarnizione sede sfera / seat ball	TEFLON + 15% FVPTFE +15% GF	---
6	Guarnizione corpo - coperchio / Gasket	TEFLON PTFE/TEFLON	---
7	Rondella / Trust Washer	TEFLON PTFE/TEFLON	---
8	O'ring Asta / O'ring	VITON	---
9	Guarnizione corpo - asta / Stem packing	Inox Aisi 304/SS 304	---
10	Rondella / Washer	Inox Aisi 304/SS 304	---
11	Dado / Nut	Inox Aisi 304/SS 304	---
12	Leva / Handle	Inox Aisi 304/SS 304	---
13	Rivestimento leva / Handle sleeve	Vinile / Vinyl	---

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

**ART. 621/A****VALVOLA A SFERA INOX, 2 PEZZI, PASSAGGIO TOTALE**

CERTIFICATI EN 10204/2.1

ESECUZIONE SPECIALE: A RICHIESTA FILETTATURA NPT**CARATTERISTICHE TECNICHE**

1. Valvola inox passaggio totale, 2 pezzi
2. Filettatura delle estremità gas EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Acciaio AISI 316 (CF8M)
4. Sede sfera in PTFE + 15% fibra di vetro
5. Anello dello stelo in Viton
6. Guarnizione dello stelo in PTFE
7. Sistema di bloccaggio
8. Flangia ISO 5211 per montaggio diretto attuatore
9. Stelo anti-espulsione
10. Pressione massima 63 Kg/cm²
11. Temperatura d'esercizio - 25 °C + 180 °C

ART. 621/A**STAINLESS STEEL FULL PORT BALL VALVE, 2 PIECES**

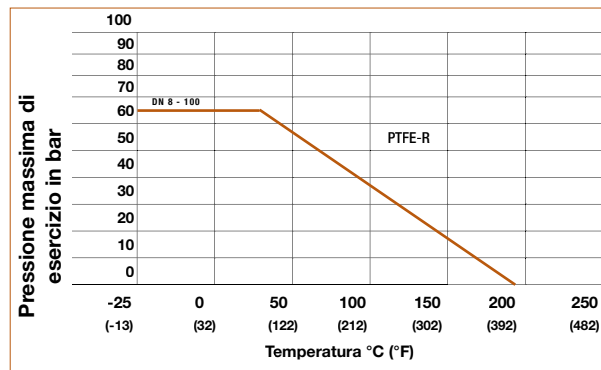
CERTIFICATES EN 10204/2.1

SPECIAL EXECUTION: THREADING ON REQUEST NPT**TECHNICAL INFORMATION**

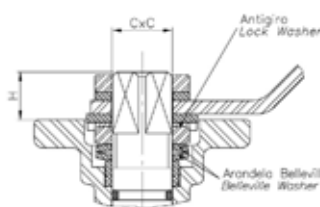
1. Stainless steel full port ball valve, 2 pieces
2. Thread ends according gas EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Made of AISI 316 (CF8M)
4. Ball seats PTFE + 15% G.F.
5. Viton o 'ring stem
6. Stem gasket PTFE
7. Locking system
8. Direct mounting actuator ISO 5211 (patent system 9900474)
9. Blow-out proof stem.
10. Max.. Working pressure 63 Kg/cm²
11. Working temperature -25 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)						Peso Weight (Kg)
			A	L	M	ISO 5211	CxC	H	
1/4"	IV621A1/4	63	62	50	112	F-03	9	10	0.30
3/8"	IV621A3/8	63	62	50	112	F-03	9	10	0.30
1/2"	IV621A1/2	63	63	55	112	F-04	9	11	0.35
3/4"	IV621A3/4	63	70	70.6	138	F-04/F-05	11	11	0.56
1"	IV621A1	63	70	83	138	F-04/F-05	11	11	0.78
1 1/4"	IV621A11/4	63	88	91	160	F-05/F-07	14	15	1.35
1 1/2"	IV621A11/2	63	94	103	205	F-05/F-07	14	15	1.90
2"	IV621A2	63	100	120	205	F-05/F-07	14	15	2.83

CURVA PRESSIONE TEMPERATURA / PRESSURE TEMPERATURE RATING

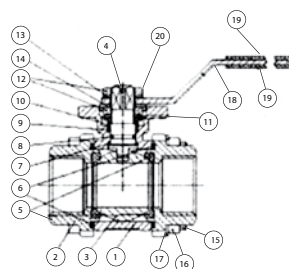
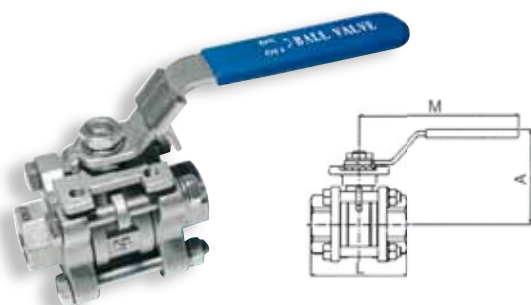
N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316/SS 316	Ruvida / Shoot blasting
2	Coperchio / Cap	Inox Aisi 316/SS 316	Ruvida / Shoot blasting
3	Sfera / Ball	Inox Aisi 316/SS 316	---
4	Stelo / Stem	Inox Aisi 316/SS 316	---
5	Guarnizione sede sfera / Seat ball	TEFLON + 15% FV/PTFE + 15% GF	---
6	Guarnizione corpo - coperchio / Gasket	TEFLON PTFE	---
7	Rondella / Trust Washer	TEFLON PTFE+Grafite / PTFE +Graphite	---
8	O'ring Asta / O'ring	VITON	---
9	Guarnizione corpo - asta / Stem packing	PTFE	---
10	Guarnizione / Stem ring	Inox Aisi 304/SS 304	---
11	Rondella molla / Spring washer	Inox Aisi 301/SS 301	---
12	Dado / Nut	Inox Aisi 304/SS 304	---
13	Rondella / Washer	Inox Aisi 304/SS 304	---
14	Rondella di sicurezza / Stopper	Inox Aisi 304/SS 304	---
15	Leva / Handle	Inox Aisi 304/SS 304	---
16	Rivestimento leva / Handle sleeve	Vinile - Vinyl	---
17	Rosetta anti slittamento / Lock washer	Inox Aisi 304/SS 304	---

**DETTAGLI DELLA ZONA DI TENUTA ALBERO
STEM DETAIL**

Rosetta anti svitamento / Lock Washer. Previene lo svitamento del dado dell'albero quando sottoposto a un elevato ciclo di manovre. / Prevents unthreading of stem nut in high cycle automation applications.

Molle a tazza / Belleville Washer. Le molle a tazza esercitano una forza costante sulle guarnizioni dell'albero, garantendo una tenuta stagna al variare delle condizioni di esercizio. / Standard belleville washers provide constant "live load" on the stem seals, assuring a tight seal even varying parameters.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



UNICAMENTE PER I DIAMETRI DA 2
1/2" A 4" / FOR 2 1/2" - 4" SIZES ONLY



ART. 641

VALVOLA A SFERA INOX, 3 PEZZI, PASSAGGIO TOTALE

CERTIFICATI EN 10204/2.1

ESECUZIONE SPECIALE: A RICHIESTA NPT, BW, SW

CARATTERISTICHE TECNICHE

1. Valvola inox passaggio totale, 3 pezzi
2. Filettatura delle estremità standard gas EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Acciaio AISI 316 (CF8M)
4. Sede sfera in PTFE + 15% fibra di vetro
5. O'ring dello stelo in Viton
6. Guarnizione dello stelo in PTFE
7. Sistema di bloccaggio
8. Flangia ISO 5211 per montaggio diretto attuatore
9. Stelo anti-espulsione
10. Pressione massima 63 Kg/cm²
11. Temperatura d'esercizio - 25 °C + 180 °C

ART. 641

STAINLESS STEEL FULL PORT BALL VALVE, 3 PIECES

CERTIFICATES EN 10204/2.1

SPECIAL EXECUTION: ON REQUEST NPT, BW, SW

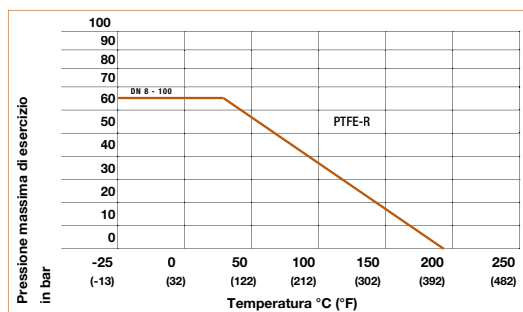
TECHNICAL INFORMATION

1. Stainless steel full port ball valve, 3 pieces
2. Thread ends according gas EN 10226-1 (EX ISO 7-1 e DIN 2999) standard
3. Made of AISI 316 (CF8M)
4. Ball seats PTFE + 15% G.F.
5. Viton o'ring stem
6. Stem gasket PTFE
7. Locking system
8. Direct mounting actuator ISO 5211 (patent system 9900474)
9. Blow-out proof stem.
10. Max.. Working pressure 63 Kg/cm²
11. Working temperature -25 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

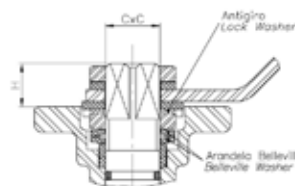
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)						Peso/Weight (Kg)
			A	L	M	ISO 5211	H	CxC	
1/4"	IV6411/4	63	60	47.6	112	F-03	10	9x9	0.39
3/8"	IV6413/8	63	60	47.6	112	F-03	10	9x9	0.38
1/2"	IV6411/2	63	60	56	112	F-03/F-04	11	9x9	0.44
3/4"	IV6413/4	63	70	73	138	F-04/F-05	11	11x11	0.82
1"	IV6411	63	70	82	138	F-04/F-05	11	11x11	1.02
1 1/4"	IV6411/4	63	88	91	160	F-05/F-07	15	14x14	1.79
1 1/2"	IV6411/2	63	94	104	205	F-05/F-07	15	14x14	2.46
2"	IV6412	63	100	120	205	F-05/F-07	15	14x14	3.47
2 1/2"	IV6412/2	63	150	155	330	F-07/F-10	19	17x17	8.50
3"	IV6413	63	165	182	330	F-07/F-10	19	17x17	12.40
4"	IV6414	63	175	220	340	F-07/F-10	19	17x17	19.65

CURVA PRESSIONE TEMPERATURA PRESSURE TEMPERATURE RATING



N°	Nome / Name	Materiale / Material	Finitura / Surface Treatment
1	Corpo / Body	Inox Aisi 316	Ruvida / Shoot blasting
2	Coperchio / Cap	Inox Aisi 316	Ruvida / Shoot blasting
3	Sfera / Ball	Inox Aisi 316	---
4	Stelo / Stem	Inox Aisi 316	---
5	Guarnizione sede sfera / Seat ball	PTFE+15% GF	---
6	Guarnizione corpo - coperchio / Gasket	PTFE	---
7	Rondella / Trust Washer	PTFE+Grafite / PTFE+Graphite	---
8	O'ring Asta / O'ring	VITON	---
9	Guarnizione corpo - asta / Stem packing	PTFE	---
10	Guarnizione corpo-asta / Stem ring	Inox Aisi 316	---
11	Rondella molla / Spring washer	Inox Aisi 301	---
12	Dado / Nut	Inox Aisi 304	---
13	Rondella / Washer	Inox Aisi 304	---
14	Rondella di sicurezza / Stopper	Inox Aisi 304	---
15	Bullone / Bolt	Inox Aisi 304	---
16	Dado / Nut	Inox Aisi 304	---
17	Rondella del bullone / Bolt washer	Inox Aisi 304	---
18	Leva / Handle	Inox Aisi 304	---
19	Rivestimento leva / Handle sleeve	Vinile / Vinyl	---
20	Antisfilamento / Lock	Inox AISI 304	---

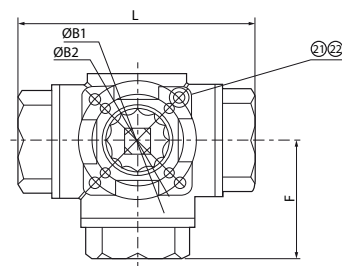
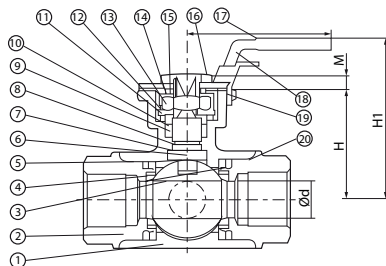
DETTAGLI DELLA ZONA DI TENUTA ALBERO STEM DETAIL



Rosetta anti svitamento / Lock Washer. Previene lo svitamento del dado dell'albero quando sottoposto a un elevato ciclo di manovre. / Prevents unthreading of stem nut in high cycle automation applications.

Molle a tazza / Belleville Washer. Le molle a tazza esercitano una forza costante sulle guarnizioni dell'albero, garantendo una tenuta stagna al variare delle condizioni di esercizio. / Standard belleville washers provide constant "live load" on the stem seals, assuring a tight seal even varying parameters.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 040 VALVOLA A SFERA ACCIAIO INOSSIDABILE TRE VIE TIPO "L"

CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola inox tre vie tipo "L"
2. Configurazione sfera "L"
3. Filettatura estremità accordo EN 10226-1 (ISO 7.1, DIN 2999)
4. Acciaio Inox 316
5. Quadro guarnizioni sede sfera PTFE + 15% GF
6. Guarnizione dello stelo in PTFE
7. Anello dello stelo in VITON
8. Dispositivo anti-statico
9. Sistema di bloccaggio
10. Flangia ISO 5211 per montaggio diretto attuatore
11. Stelo anti-espulsione
12. Pressione massima 63 Kg/cm²
13. Temperatura d'esercizio - 25 °C + 180 °C

ART. 040 STAINLESS STEEL REDUCE PORT BALL VALVE, THREE WAY TYPE "L"

CERTIFICATES EN 10204/2.1

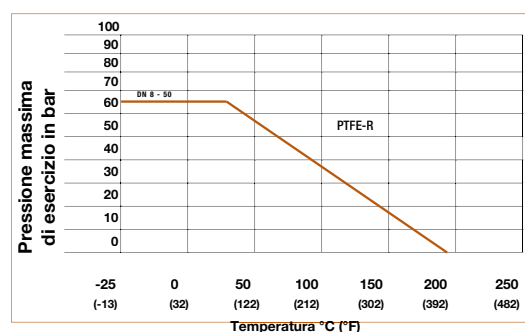
TECHNICAL INFORMATION

1. Stainless steel full port ball valve, 3 pieces
2. "L" Ball configuration
3. Thread ends according EN 10226-1 (ISO 7.1 and DIN 2999)
4. Made of AISI 316 (CF8M)
5. Four Ball seats PTFE + 15% G.F.
6. Stem gasket PTFE
7. Viton o'ring stem
8. Anti-static device (Ball-Stem-Body)
9. Locking system
10. Direct mounting actuator ISO 5211
11. Blow-out proof stem.
12. Max.. Working pressure 63 Kg/cm²
13. Working temperature -25 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

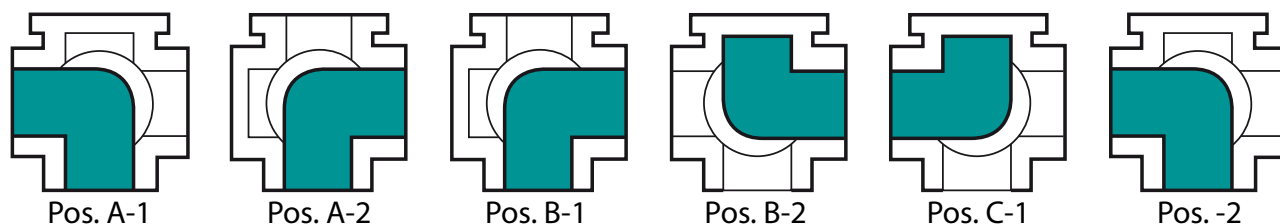
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)								Peso/Weight (Kg)
			ISO 5211	L	H	H1	W	M	F		
1/4"	IV0401/4	63	F03	F04	79	42	73	145	7	40	0.85
3/8"	IV0403/8	63	F03	F04	79	42	73	145	7	40	0.89
1/2"	IV0401/2	63	F03	F04	79	42	73	145	7	40	0.80
3/4"	IV0403/4	63	F03	F05	88	49	80	145	7	44	1.10
1"	IV0401	63	F04	F05	107	59	90	175	7	54	1.80
1 1/4"	IV04011/4	63	F04	F07	125	65	90	175	7	62	3.00
1 1/2"	IV04011/2	63	F05	F07	135	73	105	220	12	68	3.88
2"	IV0402	63	F05	F07	164	83	115	220	12	82	7.00

CURVA PRESSIONE TEMPERATURA PRESSURE TEMPERATURE RATING



CONFIGURAZIONE VALVOLE 3 VIE L-PORT "GIRO 90°" / FLOW PATTERNS FOR "L-PORT" 3 WAY VALVES 90° TURN.

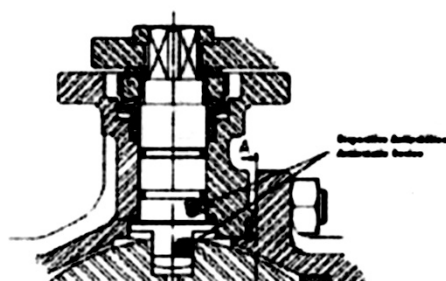
DIREZIONE FLUIDO / FLOW PATTERN (ART. 040)



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

N°	Nome / Name	Materiale / Material	Finitura / Surface Treatment
1	Corpo / Body	Inox AISI 316 / SS 316	Decapata / Shoot blasting + Pickling
2	Coperchio / Cap	Inox AISI 316 / SS 316	Decapata / Shoot blasting + Pickling
3	Sfera / Ball	Inox AISI 316 / SS 316	---
4	Guarnizione sede sfera / Ball Seat	Teflòn + 15% FV / PTFE + 15% GF	---
5	Stelo / Stem	Inox AISI 316 / SS 316	---
6	Dispositivo anti statico / Anti-Static device	Inox AISI 316 / SS 316	---
7	Rondella / Trust Washer	PTFE	---
8	O'ring / O'ring	FKM (Viton)	---
9	Guarnizione stelo / Stem packing	PTFE	---
10	Guarnizione / Bushing	Inox + PTFE / S.S. + PTFE	---
11	Anello di tenuta / Stem ring	Inox AISI 316 / SS 316	---
12	Rondella molla / Spring Washer	Inox AISI 301 / SS 301	---
13	Dado / Nut	ASTM A194-8	---
14	Rondella di sicurezza / Stopper	Inox AISI 304 / SS 304	---
15	Rondella / Washer	Inox AISI 304 / SS 304	---
16	Dado leva / Handle Nut	Inox AISI 304 / SS 304	---
17	Rivestimento leva / Handle Sleeve	Vynil	---
18	Leva / Handle	Inox AISI 304 / SS 304	---
19	Dispositivo a chiave / Lock device	Inox AISI 304 / SS 304	---
20	Guarnizione coperchio / Gasket	Teflòn / PTFE	---
21	Perno / Stop Bolt	Inox AISI 304 / SS 304	---
22	Dado / Nut	ASTM A194-8	---

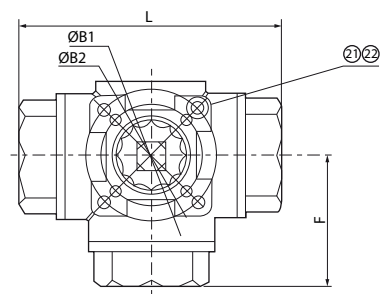
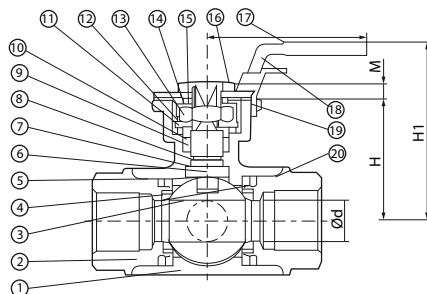
DISPOSITIVO ANTISTATICO / ANTISTATIC DEVICE



Questo dispositivo garantisce una continuità elettrica tra Sfera - Stelo - Corpo, esigenza particolarmente richiesta per i fluidi infiammabili.

This device guarantees electric continuity between Ball - Stem - Body.

This is of special necessity in inflammable fluids.



ART. 041 VALVOLA A SFERA ACCIAIO INOSSIDABILE TRE VIE TIPO "T"

CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola inox tre vie tipo "T"
2. Configurazione sfera "T"
3. Filettatura estremità accordo EN 10226-1 (ISO 7.1, DIN 2999)
4. Acciaio Inox 316
5. Quadro guarnizioni sede sfera PTFE + 15% GF
6. Guarnizione dello stelo in PTFE
7. Anello dello stelo in VITON
8. Dispositivo anti-statico
9. Sistema di bloccaggio
10. Flangia ISO 5211 per montaggio diretto attuatore
11. Stelo anti-espulsione
12. Pressione massima 63 Kg/cm²
13. Temperatura d'esercizio - 25 °C + 180 °C

ART. 041 STAINLESS STEEL REDUCE PORT BALL VALVE, THREE WAY TYPE "T"

CERTIFICATES EN 10204/2.1

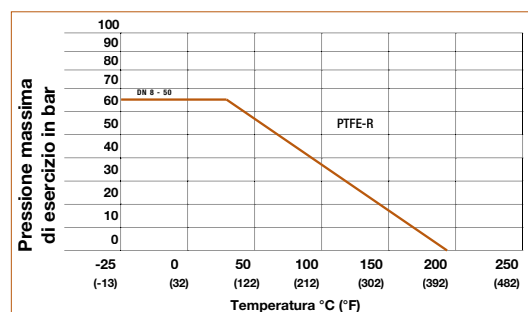
TECHNICAL INFORMATION

1. Stainless steel full port ball valve, 3 pieces
2. "T" Ball configuration
3. Thread ends according EN 10226-1 (ISO 7.1 and DIN 2999)
4. Made of AISI 316 (CF8M)
5. Four Ball seats PTFE + 15% G.F.
6. Stem gasket PTFE
7. Viton o'ring stem
8. Anti-static device (Ball-Stem-Body)
9. Locking system
10. Direct mounting actuator ISO 5211
11. Blow-out proof stem.
12. Max.. Working pressure 63 Kg/cm²
13. Working temperature -25 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

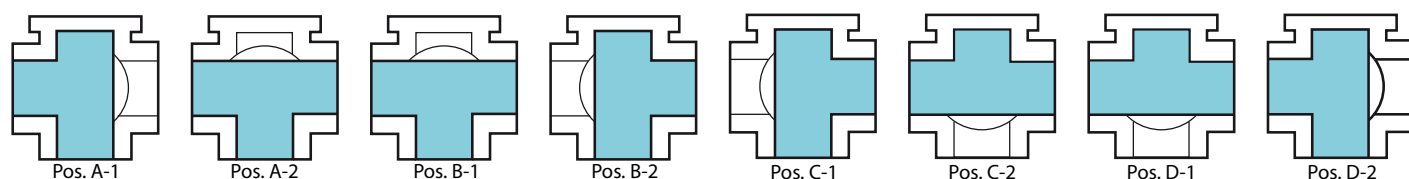
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)								Peso/Weight (Kg)
			ISO 5211	L	H	H1	W	M	F		
1/4"	IV0411/4	63	F03	F04	79	42	73	145	7	40	0.85
3/8"	IV0413/8	63	F03	F04	79	42	73	145	7	40	0.89
1/2"	IV0411/2	63	F03	F04	79	42	73	145	7	40	0.80
3/4"	IV0413/4	63	F03	F05	88	49	80	145	7	44	1.10
1"	IV0411	63	F04	F05	107	59	90	175	7	54	1.80
1 1/4"	IV04111/4	63	F04	F07	125	65	90	175	7	62	3.00
1 1/2"	IV04111/2	63	F05	F07	135	73	105	220	12	68	3.88
2"	IV0412	63	F05	F07	164	83	115	220	12	82	7.00

CURVA PRESSIONE TEMPERATURA PRESSURE TEMPERATURE RATING



CONFIGURAZIONE VALVOLE 3 VIE T-PORT "GIRO 90°" / FLOW PATTERNS FOR "T-PORT" 3 WAY VALVES 90° TURN.

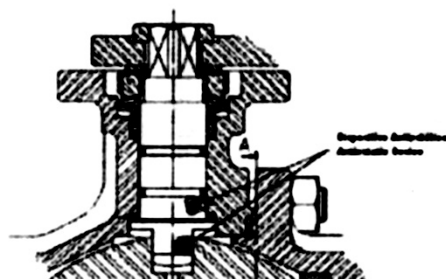
DIREZIONE FLUIDO / FLOW PATTERN (ART. 041)



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

N°	Nome / Name	Materiale / Material	Finitura / Surface Treatment
1	Corpo / Body	Inox AISI 316 / SS 316	Decapata / Shoot blasting + Pickling
2	Coperchio / Cap	Inox AISI 316 / SS 316	Decapata / Shoot blasting + Pickling
3	Sfera / Ball	Inox AISI 316 / SS 316	---
4	Guarnizione sede sfera / Ball Seat	Teflòn + 15% FV / PTFE + 15% GF	---
5	Stelo / Stem	Inox AISI 316 / SS 316	---
6	Dispositivo anti statico / Anti-Static device	Inox AISI 316 / SS 316	---
7	Rondella / Trust Washer	PTFE	---
8	O'ring / O'ring	FKM (Viton)	---
9	Guarnizione stelo / Stem packing	PTFE	---
10	Guarnizione / Bushing	Inox + PTFE / S.S. + PTFE	---
11	Anello di tenuta / Stem ring	Inox AISI 316 / SS 316	---
12	Rondella molla / Spring Washer	Inox AISI 301 / SS 301	---
13	Dado / Nut	ASTM A194-8	---
14	Rondella di sicurezza / Stopper	Inox AISI 304 / SS 304	---
15	Rondella / Washer	Inox AISI 304 / SS 304	---
16	Dado leva / Handle Nut	Inox AISI 304 / SS 304	---
17	Rivestimento leva / Handle Sleeve	Vynil	---
18	Leva / Handle	Inox AISI 304 / SS 304	---
19	Dispositivo a chiave / Lock device	Inox AISI 304 / SS 304	---
20	Guarnizione coperchio / Gasket	Teflòn / PTFE	---
21	Perno / Stop Bolt	Inox AISI 304 / SS 304	---
22	Dado / Nut	ASTM A194-8	---

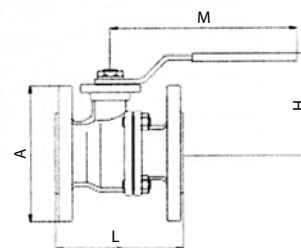
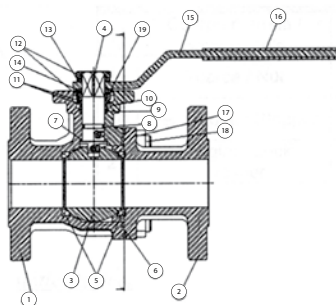
DISPOSITIVO ANTISTATICO / ANTISTATIC DEVICE



Questo dispositivo garantisce una continuità elettrica tra Sfera - Stelo - Corpo, esigenza particolarmente richiesta per i fluidi infiammabili.

This device guarantees electric continuity between Ball - Stem - Body.

This is of special necessity in inflammable fluids.

**ART. 528****VALVOLA A SFERA ACCIAIO INOSSIDABILE,
PASSAGGIO TOTALE FLANGIATA****CERTIFICATI EN 10204/2.1****CARATTERISTICHE TECNICHE**

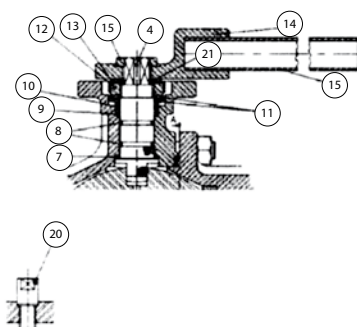
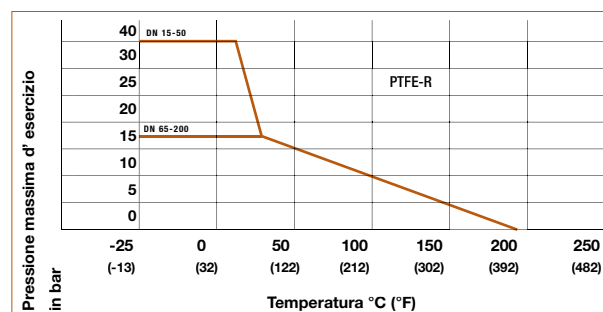
1. Valvola a sfera passaggio totale, 2 pezzi
2. Estremità flangiate secondo DIN 2501-EN.
PN40 da DN15 a DN50 e PN16 da DN65 a DN200
3. Acciaio inox DIN 1.4408 (CF8M)
4. Disegni secondo le normative DIN 3357/ISO 5752
5. Scartamento tra le facce secondo DIN 3202 F4/F5
6. Sede della sfera in PTFE + 15% Fibra di vetro
7. Guarnizione spirometallica fino a DN32
8. O'ring dello stelo in Viton
9. Stelo anti-espulsione
10. Flangia ISO 5211 per montaggio diretto attuatore
11. Sistema di bloccaggio
12. Dispositivo anti-statico
13. Disegno anti-incendio
14. Pressione massima 40/16 Kg/cm²
15. Temperatura d'esercizio -30°C + 180°C

ART. 528**STAINLESS STEEL FULL PORT BALL VALVE,
FLANGED ENDS****CERTIFICATES EN 10204/2.1****TECHNICAL INFORMATION**

1. Full port ball valve, 2 pieces
2. Flanged ends according DIN 2501-EN.
PN40 DN 15 to DN 50 and PN16 DN 65 to DN 200
3. Made of Stainless Steel Din 1.4408 (CF8M)
4. Desing according DIN 3357 / ISO 5752
5. Face to face according Din 3202 F4 / F5
6. Ball seats PTFE + 15% G. F.
7. Up to Dn 32 with spirometalic gasket
8. Viton O' ring stem
9. Blow-out proof stem.
10. Direct mounting actuator according ISO 5211 (patent system).
11. Block System included
12. Anti- Static device
13. Fire-safe design
14. Max.. Working pressure 40/16 Kg/cm²
15. Working Temperature -30 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)						Peso Weight (Kg)
			ISO 5211	A	H	L	M	CxC	
1/2"	IV5281/2	40	F04	95	85	115	170	9x9	2.20
3/4"	IV5283/4	40	F04/05	105	85	120	170	9x9	3.05
1"	IV5281	40	F04/05	116	95	125	170	11x11	3.75
1 1/4"	IV52811/4	40	F05/07	140	106	130	170	14x14	5.75
1 1/2"	IV52811/2	40	F05/07	150	110	140	200	14x14	7.00
2"	IV5282	40	F05/07	165	118	150	200	14x14	9.50
2 1/2"	IV52821/2	16	F07/10	185	170	170	380	17x17	14.75
3"	IV5283	16	F07/10	200	170	180	380	17x17	18.85
4"	IV5284	16	F07/10	220	170	190	380	17x17	26.25
5"	IV5285	16	F10/12	250	200	325	450	27x27	43.65
6"	IV5286	16	F10/12	285	250	350	550	27x27	60.85
8"	IV5288	16	F12	340	300	400	550	30x30	106.70

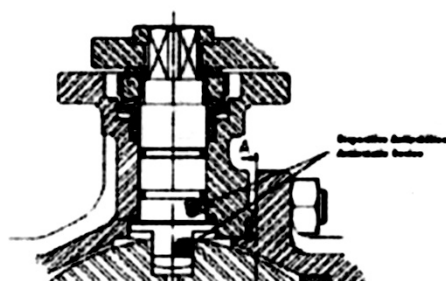
**CURVA PRESSIONE TEMPERATURA
PRESSURE TEMPERATURE RATING****SOLO PER DIAMETRI DA 2 1/2" - 8" FOR 2 1/2" - 8" SIZES ONLY**

N°	Nome / Name	Materiale / Material	Finitura / Surface Treatment
14	Corpo della leva / Body Handle	AISI 304	Decapata / Shot blasting + picking
19	Dado / Nut	Inox AISI 316	---
20	Perno di bloccaggio / Stopper	Inox AISI 316	---
21	Antigiro / Lock washer	Inox AISI 304	---

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Din 1.4408 (CF8M)	Decapata / Shot blasting + Picking
2	Coperchio / Cap	Din 1.4408 (CF8M)	Decapata / Shot blasting + Picking
3	Sfera / Ball	Inox Aisi 316	---
4	Stelo / Stem	Inox Aisi 316	---
5	Guarnizione sede sfera /Seat ball	PTFE + GF	---
6	Guarnizione corpo - coperchio / Gasket	Spirometallica	---
7	Guarnizione corpo - asta / Stem Packing	PTFE+Grafite / PTFE+Graphite	---
8	O'ring Stelo / O'ring	VITON	---
9	Guarnizione / Stem packing	PTFE	---
10	Guarnizione / Stem ring	Inox Aisi 316	---
11	Rondella / Spring Washer	Inox Aisi 301	---
12	Dado / Nut	Inox Aisi 316	---
13	Rondella / Washer	Inox Aisi 304	---
14	Fermo molla / Stopper	Inox Aisi 304	---
15	Leva / Handle	Inox Aisi 304	---
16	Rivestimento leva / Handle sleeve	Vinyl	---
17	Dado / Nut	Inox Aisi 316	---
18	Perno / Stud bolt	Inox Aisi 316	---
19	Rondella di sicurezza / Lock Washer	Inox Aisi 304	---

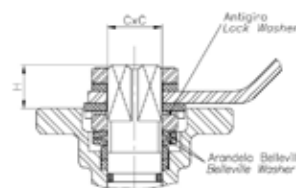
DISPOSITIVO ANTISTATICO / ANTISTATIC DEVICE



Questo dispositivo garantisce una continuità elettrica tra Sfera - Stelo - Corpo, esigenza particolarmente richiesta per i fluidi infiammabili.

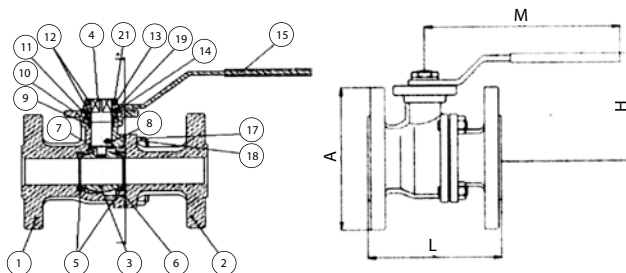
This device guarantees electric continuity between Ball - Stem - Body.

This is of special necessity in inflammable fluids.

DETTAGLI DELLA ZONA DI TENUTA ALBERO
STEM DETAIL

Rosetta anti svitamento / Lock Washer. Previene lo svitamento del dado dell'albero quando sottoposto a un elevato ciclo di manovre. / Prevents unthreading of stem nut in high cycle automation applications.

Molle a tazza / Belleville Washer. Le molle a tazza esercitano una forza costante sulle guarnizioni dell'albero, garantendo una tenuta stagna al variare delle condizioni di esercizio. / Standard belleville washers provide constant "live load" on the stem seals, assuring a tight seal even varying parameters.



ART. 528/A VALVOLA A SFERA ACCIAIO INOSSIDABILE, PASSAGGIO TOTALE FLANGIATA

CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola a sfera passaggio totale, 2 pezzi
2. Estremità flangiate secondo ASME B 16.5 ANSI classe 150
3. Acciaio inox DIN 1.4408 (CF8M)
4. Disegno secondo le normative ASME B16.34
5. Scartamento tra le facce secondo norme ASME B 16.10
6. Sede della sfera in PTFE + 15% Fibra di vetro
7. Guarnizione di tenuta in PTFE
8. Disegno anti-incendio
9. Stelo anti-espulsione
10. Flangia montaggio diretto attuatore secondo ISO 5211
11. Sistema di bloccaggio
12. Dispositivo anti-statico
13. Ispezione e collaudo secondo norme API 598, API 6D
14. Pressione massima 19 kg/cm²
15. Temperatura d'esercizio - 30° C + 180 °C

ART. 528/A STAINLESS STEEL FULL PORT BALL VALVE, FLANGED ENDS

CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

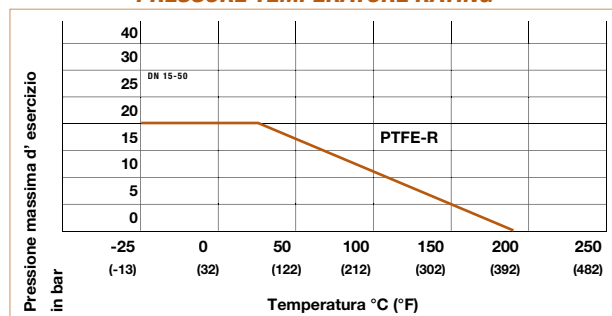
1. Full port ball valve, 2 pieces
2. Flanged ends according ASME B 16.5 ANSI Class 150
3. Made of Stainless Steel DIN 1.4408 (CF8M)
4. Design according ASME B16.34
5. Face to Face according ASME B 16.10
6. Ball seats PTFE + 15% G.F.
7. Body seal made by PTFE
8. Fire-safe design
9. Blow-out proof stem
10. Direct mounting actuator according ISO 5211
11. Block System included
12. Anti - static device
13. Inspection & Testing: API 598, API 6 D
14. Max.. Working pressure 19 Kg/cm²
15. Working Temperature - 30 °C + 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	Classe Class	Dimensioni / Dimensions (mm)				
			ISO 5211	A	H	L	M
1/2"	IV528A1/2	150	F03/F04	89	79	108	135
3/4"	IV528A3/4	150	F03/F04	98.6	84	117	135
1 "	IV528A1	150	F04/F05	108	95	127	170
1 1/4"	IV528A11/4	150	F04/F05	117	103	140	170
1 1/2"	IV528A11/2	150	F05/F07	127	111	165	200
2 "	IV528A2	150	F05/F07	152.5	120	178	200
2 1/2"	IV528A21/2	150	F07/F10	177.8	153	190	250
3"	IV528A3	150	F07/F10	190.5	163	203	250
4"	IV528A4	150	F10	228.6	182	229	400
6"	IV528A6	150	F12	279.4	280	394	800
8"	IV528A8	150	F12	342.9	---	457	---

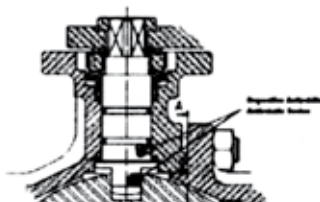
NOTA / REMARK: 8" con riduttore manuale / 8" with gear operator

CURVA PRESSIONE TEMPERATURA PRESSURE TEMPERATURE RATING



N°	Nome / Name	Materiale / Material	Finitura Surface Treatment
1	Corpo / Body	Din 1.4408 (CF8M)	Decapata / Shot blasting + Pickling
2	Coperchio / Cap	Din 1.4408 (CF8M)	Decapata / Shot blasting + Pickling
3	Sfera / Ball	Inox Aisi 316/SS 316	---
4	Stelo / Stem	Inox Aisi 316/SS 316	---
5	Guarnizione sede sfera / Seat ball	PTFE + GF	---
6	Guarnizione corpo/Gasket	PTFE	---
7	Tenuta stelo / Stem racking	PTFE + Graphite	---
8	O'ring	Viton	---
9	Tenuta stelo / Stem racking	PTFE	---
10	Anello di tenuta / Stem ring	Inox Aisi 316/SS 316	---
11	Rondella / Spring washer	Inox Aisi 301/SS 301	---
12	Dado / Nut	Inox Aisi 316/SS 316	---
13	Rondella / Washer	Inox Aisi 304/SS 304	---
14	Corpo Leva / Body Handle	Inox Aisi 304/SS 304	---
15	Leva / Handle	Inox Aisi 316/SS 316	---
16	Rivestimento leva / Handle sleeve	Vinile / Vynil	---
17	Dado / Nut	Inox Aisi 316/SS 316	---
18	Perno / Stud bolt	ASTM A193-B8	---
19	Rondella di sicurezza / Lock washer	Inox AISI 304/SS304	---

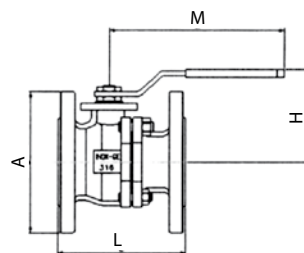
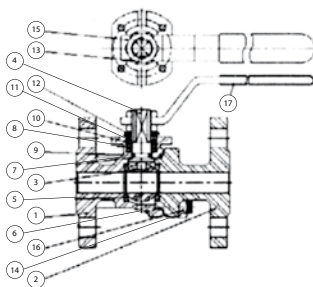
DISPOSITIVO ANTISTATICO / ANTISTATIC DEVICE



Questo dispositivo ci garantisce una continuità elettrica tra Sfera - Stelo - Corpo, esigenza particolarmente richiesta per i fluidi infiammabili.

This device guarantees us the electric continuity between Ball - Stem - Body. This is of special necessity in inflammable fluids.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 529 VALVOLA A SFERA INOX , PASSAGGIO TOTALE ESTREMITÀ FLANGIATE

CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola a sfera passaggio totale, 2 pezzi
2. Estremità flangiate secondo DIN 2501-EN, PN 40.
3. Acciaio inox secondo CF8M
4. Scartamento tra le facce secondo DIN 3202 F4/F5
5. Sede della sfera in PTFE + 15% Fibra di vetro
6. Flangia superiore secondo ISO 5211
7. Anello dello stelo in Viton
8. Stelo anti-espulsione
9. Pressione massima 40 Kg/cm²
10. Temperatura d'esercizio -30°C + 180° C

ART. 529 STAINLESS STEEL FULL PORT BALL VALVE, FLANGED ENDS

CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

1. Full port ball valve, 2 pieces
2. Flanged ends according DIN 2501-EN PN-40
3. Made of Stainless Steel Din (CF8M)
4. Face to Face according Din 3202 F4 / F5
5. Ball seats PTFE + 15% G.F.
6. Top flange according ISO 5211
7. Viton O' ring stem
8. Blow-out proof stem
9. Max. Working pressure 40 kg/cm²
10. Working Temperature -30 °C + 180 °C

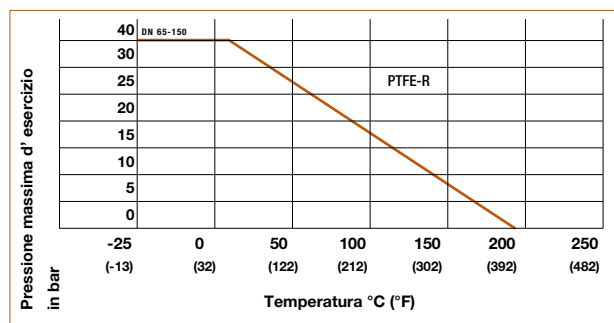
DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)							Peso/Weight (Kg)
			DN	A	D	L	M	ISO	CxC	
2 1/2"	IV52921/2	40	65	185	180	170	278	F07	17x17	17.15
3"	IV5293	40	80	200	180	180	278	F10	17x17	21.20
4"	IV5294	40	100	235	184	190	378	F10	17x17	29.90
5"	IV5295	40	125	270	235	325	500	F12	27x27	52.90
6"	IV5296	40	150	300	250	350	500	F12	27x27	75.45

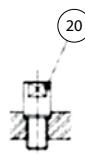
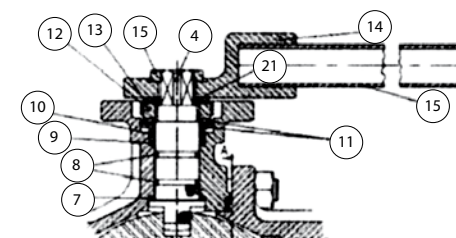
N°	Nome / Name	Materiale / Material	Finitura / Surface Treatment
1	Corpo / Body	Din 1.4408 (CF8M)	Decapata / Shot blasting + Picking
2	Coperchio / Cap	Din 1.4408 (CF8M)	Decapata / Shot blasting + Picking
3	Sfera / Ball	Inox Aisi 316/SS 316	---
4	Stelo / Stem	Inox Aisi 316/SS 316	---
5	Guarnizione sede sfera /Seat ball	PTFE + GF + 15 GF	---
6	Guarnizione corpo / Gasket	PTFE	---
7	Tenuta stelo / Stem packing	PTFE	---
8	O'ring	Viton	---
9	Tenuta stelo / Stem packing	PTFE	---
10	Anello di tenuta / Stem ring	Inox Aisi 304/SS 304	---
11	Rondella / Spring Washer	Inox Aisi 301/SS 301	---
12	Dado / Nut	Inox Aisi 304/SS 304	---
13	Rondella / Spring Washer	Inox Aisi 304/SS 304	---
14	Corpo Leva / Body Handle	Inox Aisi 304/SS 304	---
15	Leva / Handle	Inox Aisi 304/SS 304	---
16	Rivestimento leva / Handle sleeve	Vinile / Vynil	---
17	Dado / Nut	Inox AISI 304/SS 304	---
18	Dado / Nut	Inox AISI 316/SS 316	---
19	Bullone / Stopper	Inox AISI 304/SS 304	---
20	Rondella sicurezza / Lock Washer	Inox AISI 304/SS 304	---

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

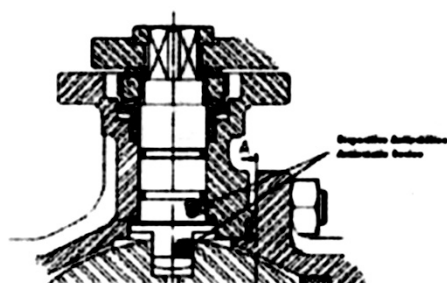
CURVA PRESSIONE PRESSURE TEMPERATURE RATING



SOLO PER DIAMETRI DA 4" A 6" FOR 4" - 6" SIZES ONLY



DISPOSITIVO ANTISTATICO / ANTISTATIC DEVICE

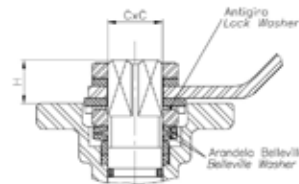


Questo dispositivo garantisce una continuità elettrica tra Sfera - Stelo - Corpo, esigenza particolarmente richiesta per i fluidi infiammabili.

This device guarantees us the electric continuity between Ball - Stem - Body.

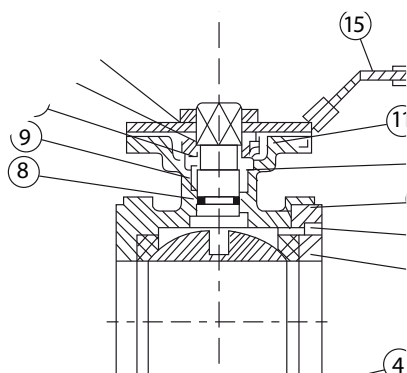
This is of special necessity in inflammable fluids.

DETTAGLI DELLA ZONA DI TENUTA ALBERO STEM DETAIL



Rosetta anti svitamento / Lock Washer. Previene lo svitamento del dado dell'albero quando sottoposto a un elevato ciclo di manovre. / Prevents unthreading of stem nut in high cycle automation applications.

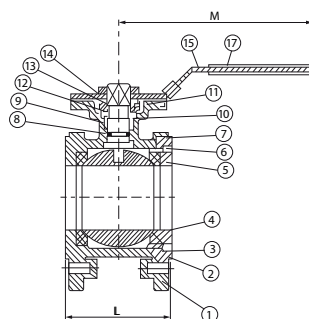
Molle a tazza / Belleville Washer. Le molle a tazza esercitano una forza costante sulle guarnizioni dell'albero, garantendo una tenuta stagna al variare delle condizioni di esercizio. / Standard belleville washers provide constant "live load" on the stem seals, assuring a tight seal even varying parameters.



ART. 118
VALVOLA A SFERA INOX, TIPO WAFER
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

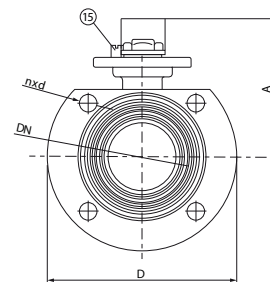
1. Valvola a sfera tipo wafer
2. Montaggio con Flange DIN EN PN16
3. Acciaio AISI 316
4. Sede sfera in PTFE + 15% fibra di vetro
5. Stelo anti-espulsione
6. Flangia ISO 5211 per montaggio diretto attuatore
7. Sistema di bloccaggio
8. Pressione massima 16 Kg/cm²
9. Temperatura d'esercizio -20°C + 180°C



ART. 118
STAINLESS STEEL FULL PORT BALL VALVE, WAFER TYPE
CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

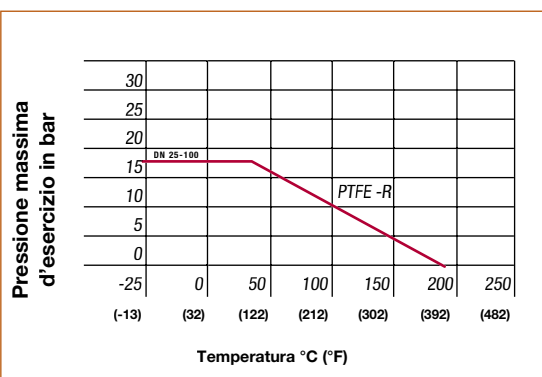
1. Full port ball valve, Wafer type
2. Assembly with flanges DIN PN-16
3. Made of Stainless Steel AISI 316
4. Ball seats PTFE + 15% G.F.
5. Blow - out proof stem
6. Direct mounting actuator according ISO 5211 (from 1")
7. Block System included
8. Max. Working pressure 16 Kg/cm²
9. Working Temperature -20°C + 180°C



DIMENSIONI GENERALI / GENERAL DIMENSIONS

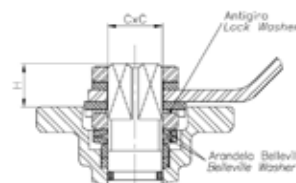
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)						Peso/ Weight (Kg)
			A	L	M	ISO 5211	H	CxC	
1/2"	IV1181/2	16	80	36	150	F03	9.5	9x9	1.70
3/4"	IV1183/4	16	85	38	150	F03	13	9x9	1.90
1"	IV1181	16	95	50	170	F04 F05	10	11x11	2.50
1 1/4"	IV11811/4	16	100	53	170	F04 F05	12.5	11x11	3.50
1 1/2"	IV11811/2	16	150	65	210	F05 F07	14.5	14x14	4.35
2"	IV1182	16	115	78	210	F05 F07	14	14x14	5.45
2 1/2"	IV11821/2	16	130	98	260	F07 F10	17	17x17	7.80
3"	IV1183	16	145	118	260	F07 F10	16	17x17	10.30
4"	IV1184	16	175	140	260	F07 F10	19	17x17	18.00

CURVA PRESSIONE PRESSURE TEMPERATURE RATING



N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316	Sabbiata / Shoot blasting
2	Coperchio / Cap	Inox Aisi 316	Sabbiata / Shoot blasting
3	Guarnizione corpo / Gasket	PTFE	---
4	Sfera / Ball	Inox Aisi 316	---
5	Guarnizione sede / Ball	PTFE + 15% GF	---
6	Sfera stelo / Stem	Inox Aisi 316	---
7	Rondella / Trust washe	PTFE	---
8	O'ring / O'ring	VITON	---
9	Guarnizione corpo / Stem packing	PTFE	---
10	Guarnizione / Stem ring	Inox Aisi 304	---
11	Dado / Nut	Inox Aisi 304	---
12	Rondella molla / Spring Washer	Inox Aisi 304	---
13	Rosetta anti slittamento / Lock washer	Inox Aisi 304	---
14	Rondella / Washer	Inox Aisi 304	---
15	Fermo spilla / Stop pin	Inox Aisi 304	---
16	Leva / Handle	Inox Aisi 304	---
17	Coperchio plastica / Plastic cover	VINILE / VYNIL	---

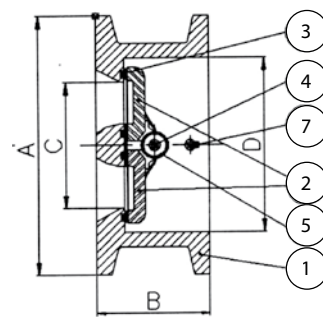
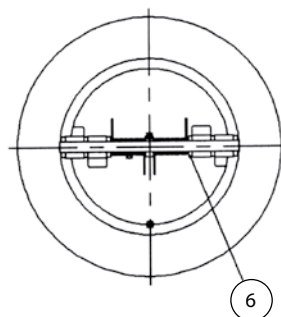
DETTAGLI DELLA ZONA DI TENUTA ALBERO STEM DETAIL



Rosetta anti svitamento / Lock Washer. Previene lo svitamento del dado dell'albero quando sottoposto a un elevato ciclo di manovre. / Prevents unthreading of stem nut in high cycle automation applications.

Molle a tazza / Belleville Washer. Le molle a tazza esercitano una forza costante sulle guarnizioni dell'albero, garantendo una tenuta stagna al variare delle condizioni di esercizio. / Standard belleville washers provide constant "live load" on the stem seals, assuring a tight seal even varying parameters.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 402 VALVOLA DI RITEGNO TIPO WAFER, DOPPIO BATTENTE CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno doppio battente tipo wafer
2. Acciaio inossidabile in CF8M
3. Battente in CF8M
4. Asta e molla in AISI 316
5. Sede in Viton (FKM) vulcanizzata
6. Montaggio tra le flange DIN EN PN25 | ANSI 150
7. Installazione con flusso verticale, orizzontale o inclinato
8. Scartamento tra le facce secondo EN558-1
9. Pressione massima 25 Kg/cm²
10. Temperatura massima d'esercizio 180 °C

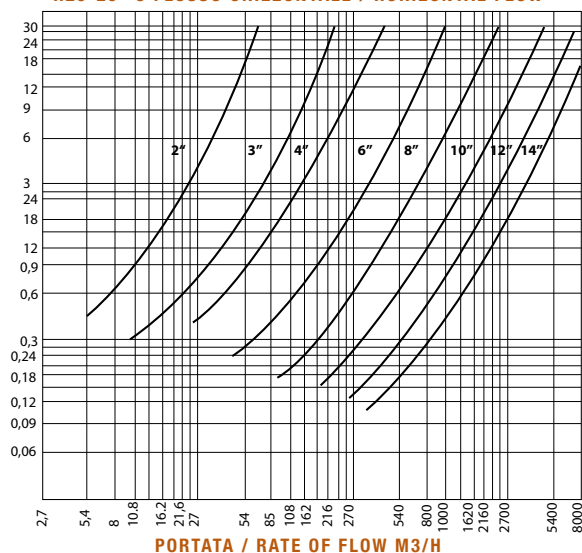
ART. 402 CHECK VALVE (DOUBLE DISK) WAFER TYPE CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

1. Wafer check valve (double disk)
2. Made of stainless steel CF8M
3. Disk made of CF8M
4. Axle and spring made of AISI 316
5. Seat of viton (FKM) vulcanised in groove
6. Assembly between flanges DIN EN PN25 | ANSI 150
7. Installed with vertical horizontal or inclined flow
8. Face to face according EN 558-1
9. Max working pressure 25 Kg/cm²
10. Max. Working temperature 180 °C

DIAGRAMMA PERDITE DI CARICO HEAD LOSSES DIAGRAM

H20-20 °C FLUSSO ORIZZONTALE / HORIZONTAL FLOW



DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	DN	PN	Dimensioni / Dimensions (mm)				Peso/Weight (Kg)
				A	B	C	D	
2"	IV4022	50	25	101	54	44	65	1.62
2 1/2"	IV40221/2	65	25	120	54	55	80	2.10
3"	IV4023	80	25	133	57	68	94	2.55
4"	IV4024	100	25	168	64	86	117	4.10
5"	IV4025	125	25	194	70	110	145	6.50
6"	IV4026	150	25	219	76	132	170	8.30
8"	IV4028	200	25	276	95	176	224	16.50
10"	IV40210	250	25	337	108	222	265	19.80
12"	IV40212	300	25	400	143	264	310	35.90

PRESSIONE MINIMA / MINIMUM OPENING PRESSURE

Flusso/ Flow	Applicazione Application	Pressione Pressure	2"	2 1/2"	3"	4"	5"	6"	8"	10"	12"
	Con molla With spring	mbar	22,8	22,8	22,8	24	24,5	24,7	25,4	26,6	27,3
	Con molla With spring	mbar	22,4	22,4	22,4	23,5	24	24,1	24,7	25,8	26,4
	Con molla With spring	mbar	22	22	22	23	23,5	23,5	24	25	25,5
	Senza molla Without spring	mbar	0,4	0,4	0,4	0,5	0,5	0,6	0,7	0,8	0,9

N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316	Decapata / Shot blasting + Picking
2	Battente / Disk	Inox Aisi 316	Decapata / Shot blasting + Picking
3	Guarnizione / Seat	Viton (FKM)	---
4	Asta / Axle	Inox Aisi 316	---
5	Molla / Spring	Inox Aisi 316	---
6	Rondella / Washer	PTFE	---
7	Fermo del disco / Disk stopper	Inox Aisi 316	---

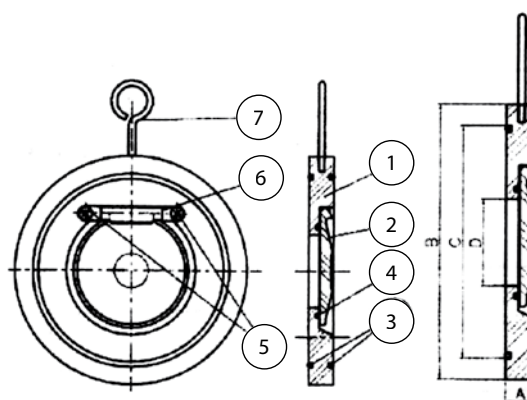
Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 406
VALVOLA DI RITEGNO A CLAPET TIPO WAFER
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno a clapet tipo wafer
2. Acciaio inossidabile AISI 316
3. O'ring esterno in viton (FKM)
4. O'ring del battente in Viton (FKM)
5. Montaggio tra le flange DIN EN PN16
6. Installazione con flusso verticale o orizzontale
7. Pressione massima 16 Kg/cm²
8. Temperatura massima d'esercizio 180 °C
9. Basse perdite di carico



ART. 406
CHECK VALVE (SINGLE DISK) WAFER TYPE
CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

1. Wafer check valve (single disk)
2. Made of stainless steel AISI 316
3. External o'ring made of viton (FKM)
4. Disk o'ring made of viton (FKM)
5. Assembly between flanges DIN EN PN-16
6. Installed with vertical or horizontal flow
7. Max working pressure 16 Kg/cm²
8. Max working temperature 180 °C
9. Low head losses

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)				Peso/Weight (Kg)
			A	B	C	D	
2"	IV4062	16	14	105	96	32	0.85
2 1/2"	IV40621/2	16	14	124	110	40	1.18
3"	IV4063	16	14	136	125	54	1.48
4"	IV4064	16	18	164	148	70	2.50
5"	IV4065	16	18	194	166	92	3.20
6"	IV4066	16	20	220	197	112	4.40
8"	IV4068	16	22	275	249	154	7.15
10"	IV40610	16	26	332	308	200	11.95

N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316	---
2	Battente / Disk	Inox Aisi 316	---
3	O'ring esterno / External O'ring	Viton	---
4	O'ring battente / Disk O'ring	Viton	---
5	Vite dell'asse / Axis screw	Inox Aisi 316	---
6	Fermo dello stelo / Stem stopper	Inox Aisi 316	---
7	Gancio / Hook	Acciaio / Steel	Zincato / Zinc plated

CURVA PRESSIONE TEMPERATURA
PRESSURE TEMPERATURE RATING

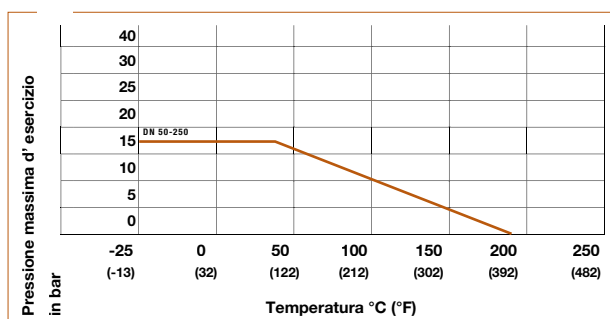
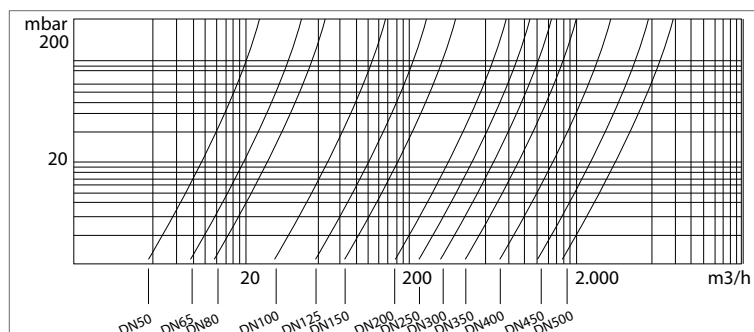
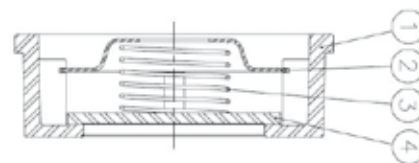
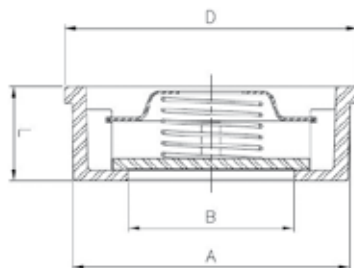
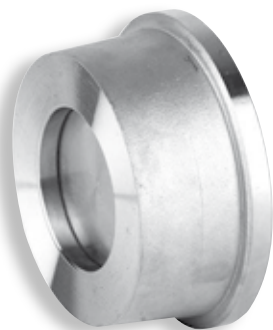


DIAGRAMMA PERDITE DI CARICO
HEAD LOSSES DIAGRAM

H2O-20 °C FLUSSO ORIZZONTALE / HORIZONTAL FLOW



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 415
VALVOLA DI RITEGNO A DISCO TIPO WAFER
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno a Disco tipo Wafer
2. Corpo in acciaio inox AISI 316
3. Disco in acciaio inox AISI 316
4. Molla in acciaio inox AISI 316
5. Dimensioni ridotte
6. Montaggio tra flange DIN EN PN 16/40 e ANSI 150
7. Installazione Orizzontale, Verticale o Inclinata
8. Scartamento secondo EN 558-1 S.49
9. Pressione di esercizio massima 40/25 kg/cm²
10. Bassa perdita di carico
11. Tempertura di esercizio -20°C + 240°C

ART. 415
WAFER DISK CHECK VALVE
CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

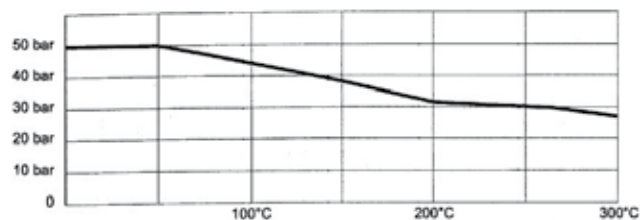
1. Wafer check valve (single disk).
2. Made of Stainless Steel AISI 316.
3. Disk made of AISI 316.
4. Spring made of AISI 316.
5. Little dimensions.
6. Assembly between flanges DIN EN PN-16/40 and ANSI 150.
7. Installed with vertical, horizontal or inclined flow.
8. Face to Face according EN 558-1 S.49.
9. Max. Working pressure 40/25 kg/cm².
10. Low head losses.
11. Working Temperature -20°C +240°C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

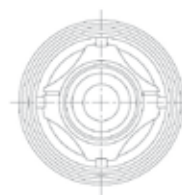
Diametri Size	Codice Code	DN	PN	Dimensioni / Dimensions (mm)				Peso/Weight (Kg)
				D	B	A	L	
1/2"	IV4151/2	15	40	39	15	34	16	0.08
3/4"	IV4153/4	20	40	46	20	41	19	0.12
1"	IV4151	25	40	54	25	49	22	0.19
1 1/4"	IV41511/4	32	40	70	32	62	28	0.38
1 1/2"	IV41511/2	40	40	81	40	71	32	0.52
2"	IV4152	50	40	94	48	85	40	0.77
2 1/2"	IV41521/2	65	40	113	62	102	46	1.24
3"	IV4153	80	40	132	75	123	50	1.86
4"	IV4154	100	40	150	95	140	60	2.65
5"	IV4155	125	25	-	120	185	90	6.75
6"	IV4156	150	25	-	140	218	105	10.60

**CURVA PRESSIONE TEMPERATURA
 PRESSURE TEMPERATURE RATING**

COSTRUZIONE DAL DN 100 / SIZE FROM DN UNTIL DN 100



COSTRUZIONE DN 125 E DN 150 / SIZE DN 125 AND DN 150



Sistema di fissaggio del
fermo molla senza viti.

Fixation System of Spring
stop ring whitout bolts.

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.

COMPONENTI DN 15 E DN 100 / PARTS FROM DN-15 UNTIL DN-100

N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox AISI 316 / SS 316	Decapato / Shot Blasting + Pickling
2	Fermo molla / Spring stop ring	Inox AISI 316 / SS 316	---
3	Molla / Spring	Inox AISI 316 / SS 316	---
4	Disco / Disk	Inox AISI 316 / SS 316	Decapato / Shot Blasting + Pickling

COMPONENTI DN 125 E DN 150 / PARTS OF DN-125 AND DN-150

N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox AISI 316 / SS 316	Decapato / Shot Blasting + Pickling
2	Disco / Disc	Inox AISI 316 / SS 316	Decapato / Shot Blasting + Pickling
3	Tenuta / Seat	Inox AISI 316 / SS 316	---
4	Molla / Spring	Inox AISI 316 / SS 316	---
5	O'ring	NBR	---
6	Fermo molla / Spring stop ring	Inox AISI 316 / SS 316	---
7	Viti / Bolt	Inox AISI 304 / SS 304	---

Costruzione DN 125 e DN 150 / size DN 125 and DN 150

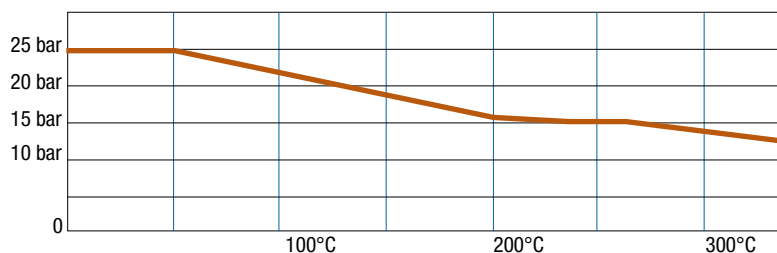
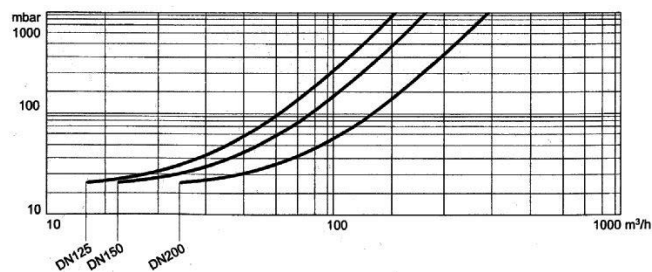
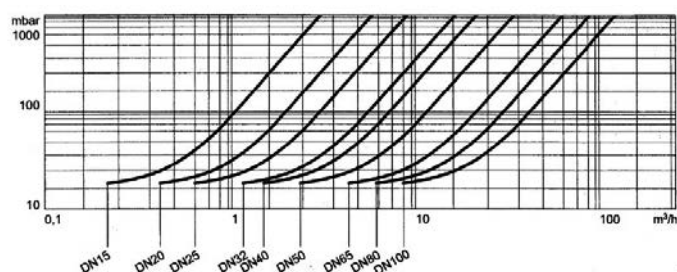


DIAGRAMMA PERDITE DI CARICO / HEAD LOSSES DIAGRAM

H20-20 °C FLUSSO ORIZZONTALE / HORIZONTAL FLOW

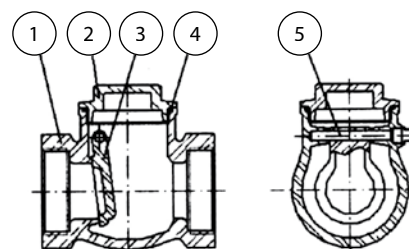
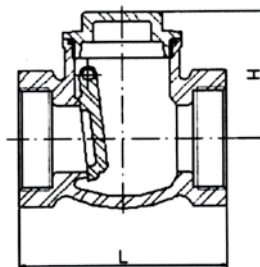


PRESSIONE MINIMA / MINIMUM OPENING PRESSURE

Flusso/ Flow	Applicazione Application	DIN	15	20	25	32	40	50	65	80	100
△	Con molla With spring	mbar	25	25	25	27	29	29	31	32	33
▷	Con molla With spring	mbar	23	23	23	24	26	26	26	26	27
▽	Con molla With spring	mbar	21	21	21	21	21	21	21	21	21
△	Senza molla Without spring	mbar	2	2	2	3	4	4	5	5	6

Flusso/ Flow	Applicazione Application	DIN	125	150	200
△	Con molla With spring	mbar	34	36	36
▷	Con molla With spring	mbar	22	23	27
▽	Con molla With spring	mbar	17	18	18
△	Senza molla Without spring	mbar	0	9	10

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 430
VALVOLA DI RITEGNO A CLAPET FILETTATA
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno a clapet filettata
2. Acciaio inossidabile Aisi 316
3. Estremità filettate secondo EN 10226-1 (EX ISO 7-1 e DIN 2999)
4. Pressione massima 16 Kg/cm²
5. Temperatura massima d'esercizio 180 °C

ART. 430
SWING CHECK VALVE, THREADED ENDS
CERTIFICATES EN 10204/2.1

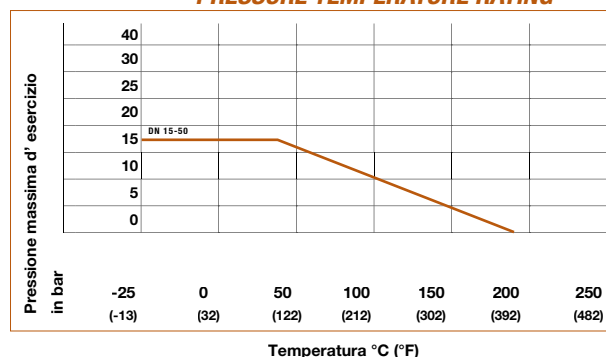
TECHNICAL INFORMATION

1. Swing check valve
2. Made by stainless steel Aisi 316
3. Threaded ends according EN 10226-1 (EX ISO 7-1 e DIN 2999)
4. Max. Working pressure 16 Kg / cm²
5. Max. working temperature 180 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

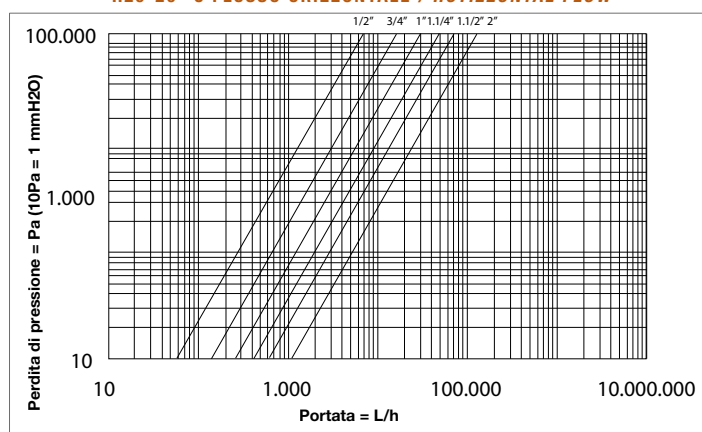
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)		Peso/Weight (Kg)
			H	L	
1/2"	IV4301/2	16	44	65	0.31
3/4"	IV4303/4	16	53	80	0.49
1 "	IV4301	16	58	90	0.72
1 1/4"	IV43011/4	16	62	105	1.04
1 1/2"	IV43011/2	16	73	120	1.65
2 "	IV4302	16	78	141	2.39

CURVA PRESSIONE TEMPERATURA
PRESSURE TEMPERATURE RATING

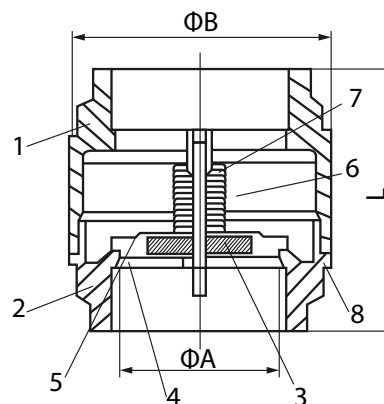


N°	Nome Name	Materiale Material	Finitura Surface Treatment
1	Corpo / Body	Inox Aisi 316	Sabbata / Shot blasting
2	Coperchio / Cap	Inox Aisi 316	Sabbata / Shot blasting
3	Disco / Disc	Inox 316	---
4	Guarnizione / Gasket	PTFE	---
5	Stelo / Stem	Inox Aisi 316	---

DIAGRAMMA PERDITE DI CARICO / HEAD LOSSES DIAGRAM
H20-20 °C FLUSSO ORIZZONTALE / HORIZONTAL FLOW



Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 901 - PTFE
VALVOLA DI RITEGNO A MOLLA MOD. AURORA
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno a molla
2. Acciaio inossidabile AISI 316
3. Guarnizione di tenuta PTFE
4. Estremità filettate secondo EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Pressione di esercizio max PN 16
6. Temperatura di esercizio: -25°C / + 180°C
7. Pressione minima di apertura 0,13 Kg/cm²

APPLICAZIONI: ACQUA, ACIDI E SOLVENTI COMPATIBILI

ART. 901 - PTFE
SPRING CHECK VALVE MOD. AURORA
CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

1. Spring check valve
2. Made by AISI 316 (CF8M)
3. Seat PTFE
4. Thread ends EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Max working pressure 16Kg/cm²
6. Working temperature -25°C / + 180°C
7. Minimum opening pressure 0,13 Kg/cm²

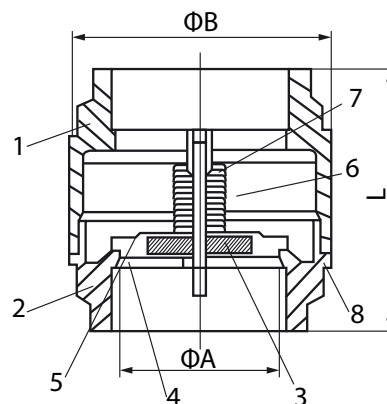
APPLICATIONS: WATER, ACIDS AND COMPATIBLE SOLVENT

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	Dimensioni / Dimensions (mm)			Peso/ Weight (Kg)
		A	B	L	
3/8"	IV9013/8	10	30	54	0.15
1/2"	IV9011/2	15	34.5	57	0.17
3/4"	IV9013/4	20	41.5	64	0.29
1"	IV9011	25	48	75	0.44
1 1/4"	IV90111/4	32	60.5	82	0.67
1 1/2"	IV90111/2	40	71	93	1.0
2"	IV9012	50	87	100	1.61

N°	NOME / NAME	MATERIALI / MATERIAL
1	Corpo / Body	ACCIAIO INOX CF8M / SS 316 CF8M
2	Coperchio / Cover	ACCIAIO INOX CF8M / SS 316 CF8M
3	Disco / Disc	ACCIAIO INOX AISI 316 / SS AISI 316
4	Tenuta / Seat	PTFE / PTFE
5	Disco di Tenuta Guarnizione / Disc Seat	ACCIAIO INOX AISI 316 / SS AISI 316
6	Molla / Spring	ACCIAIO INOX AISI 302 / 304
7	Stelo / Stem	ACCIAIO INOX AISI 316 / SS AISI 316
8	Guarnizione Corpo Coperchio / Body Gasket	PTFE / PTFE

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 902 - FKM
VALVOLA DI RITEGNO A MOLLA MOD. AURORA
CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola di ritegno a molla
2. Acciaio inossidabile AISI316
3. Guarnizione di tenuta FKM
4. Estremità filettate secondo EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Pressione di esercizio max PN 16
6. Temperatura di esercizio: -15°C/+ 160 °C
7. Pressione minima di apertura 0,13 Kg/cm²

APPLICAZIONI: GAS, ACIDI E SOLVENTI COMPATIBILI

ART. 902 - FKM
SPRING CHECK VALVE MOD. AURORA
CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

1. Spring check valve
2. Made by AISI 316 (CF8M)
3. Seat FKM
4. Thread ends EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Max working pressure 16Kg/cm²
6. Working temperature -15°C/+ 160 °C
7. Minium opening pressure 0,13 Kg/cm²

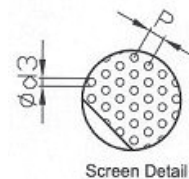
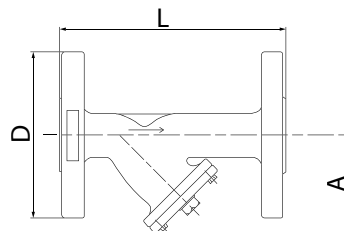
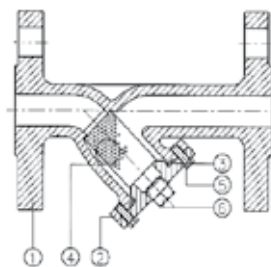
APPLICATIONS: GAS, ACIDS AND COMPATIBLE SOLVENT

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	Dimensioni / Dimensions (mm)			Peso/ Weight (Kg)
		A	B	L	
3/8"	IV9023/8	10	30	54	0.15
1/2"	IV9021/2	15	34.5	57	0.17
3/4"	IV9023/4	20	41.5	64	0.29
1"	IV9021	25	48	75	0.44
1 1/4"	IV90211/4	32	60.5	82	0.67
1 1/2"	IV90211/2	40	71	93	1.0
2"	IV9022	50	87	100	1.61

N°	NOME / NAME	MATERIALI / MATERIAL
1	Corpo / Body	ACCIAIO INOX CF8M / SS 316 CF8M
2	Coperchio / Cover	ACCIAIO INOX CF8M / SS 316 CF8M
3	Disco / Disc	ACCIAIO INOX AISI 316 / SS AISI 316
4	Tenuta / Seat	FKM / FKM
5	Disco di Tenuta Guarnizione / Disc Seat	ACCIAIO INOX AISI 316 / SS AISI 316
6	Molla / Spring	ACCIAIO INOX AISI 302 / 304
7	Stelo / Stem	ACCIAIO INOX AISI 316 / SS AISI 316
8	Guarnizione Corpo Coperchio / Body Gasket	PTFE / PTFE

Nota: i dati tecnici su questo catalogo sono indicativi e non impegnativi / Note: the technical data reported in this catalogue is proximate and not binding.



ART. 461 FILTRO A Y FLANGIATO

CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Filtro a Y
2. Estremità flangiate in accordo con DIN 2501 PN 16
3. Scartamento in accordo con DIN 3020 F1
4. Costruzione in acciaio INOX CF8M
5. Pressione massima di lavoro: 16 Kg/cm²
6. Temperatura di lavoro -30C° + 240C°

ART. 461 FLANGED ENDS Y STRAINER

CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

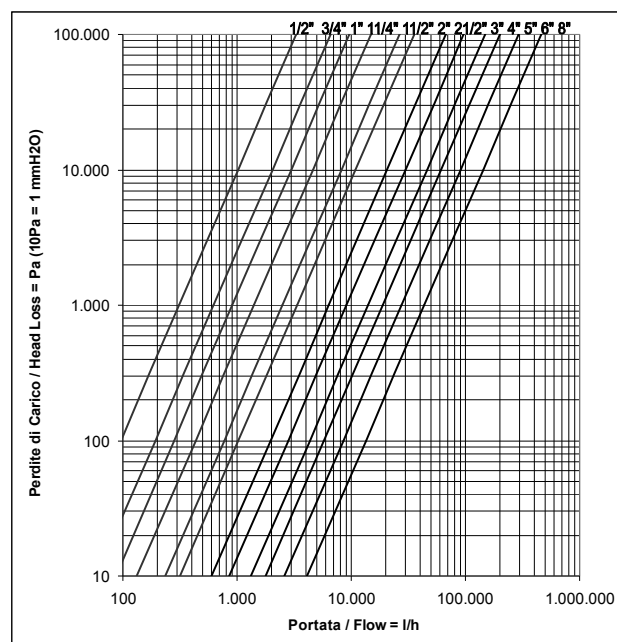
1. "Y" Strainer
2. Flanged ends according to DIN 2501 PN 16
3. Face to Face according to DIN 3020 F1
4. Made of Stainless Steel CF8M
5. Max Working pressure 16 Kg/cm²
6. Working temperature -30C° + 240C°

N°	NOME / NAME	MATERIALI / MATERIAL	FINITURA SUPERFICIALE / SURFACE TREATMENT
1	Corpo / Body	ACCIAIO INOX CF8M / SS 316 CF8M	SABBIATA / SHOT BLASTING + PICKLING
2	Coperchio / Cover	ACCIAIO INOX CF8M / SS 316 CF8M	SABBIATA / SHOT BLASTING + PICKLING
3	Guarnizione / Gasket	PTFE / PTFE	
4	Filtro / Strainer	ACCIAIO INOX CF8M / SS 316 CF8M	
5	Viti / Bolt	ACCIAIO INOX AISI 304 / SS AISI 304	
6	Tappo / Plug	ACCIAIO INOX AISI 316 / SS AISI 316	TAPPO G1/2" Eccetto diametri da 1/2" a 1" G1/2" Plug except for sizes 1/2"-1"

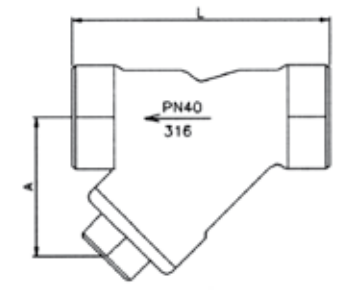
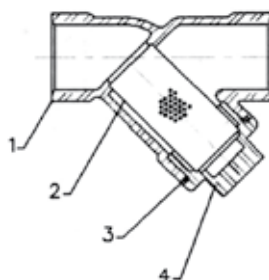
DIAGRAMMA DELLE PERDITE DI CARICO HEAD LOSSES DIAGRAM

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)					Peso/ Weight (Kg)
			A	D	L	P	d3	
1/2"	IV4611/2	16	75	95	130	2	1	1.95
3/4"	IV4613/4	16	90	105	150	2	1	2.75
1"	IV4611	16	100	115	160	2	1	3.70
1 1/4"	IV46111/4	16	115	140	180	2	1	5.90
1 1/2"	IV46111/2	16	130	150	200	2	1	6.40
2"	IV4612	16	150	165	230	2	1	8.90
2 1/2"	IV46121/2	16	190	185	290	3.5	2	12.95
3"	IV4613	16	200	200	310	3.5	2	18.15
4"	IV4614	16	230	220	350	3.5	2	24.30
5"	IV4615	16	280	250	400	3.5	2	38.35
6"	IV4616	16	300	285	480	3.5	2	61.30
8"	IV4618	16	400	340	605	3.5	2	115.00



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ART. 601 FILTRO A Y FILETTATO CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Filtro a Y filettato
2. Estremità filettate secondo norme EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Acciaio inossidabile CF8M
4. Pressione massima 40 Kg/cm²
5. Temperatura d'esercizio -30 °C + 240 °C

ART. 601 THREADED ENDS "Y" STRAINER CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

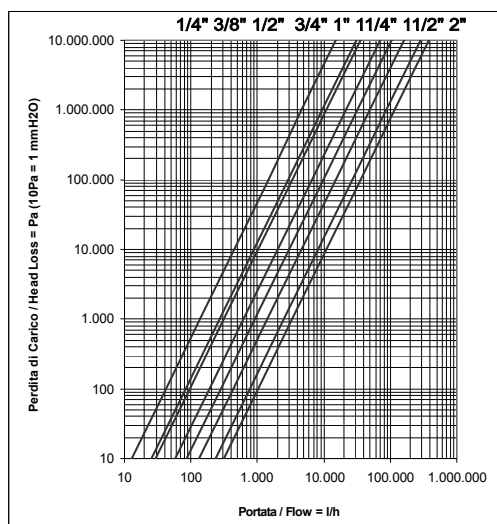
1. "Y" Strainer
2. Threaded ends according EN 10226-1 (EX ISO 7-1 e DIN 2999)
3. Made of stainless steel CF8M
4. Max. working pressure 40 Kg/cm²
5. Working temperature -30 °C + 240 °C

DIMENSIONI GENERALI / GENERAL DIMENSIONS

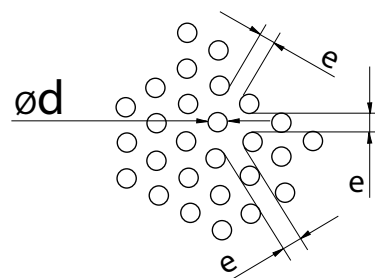
Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)				Peso/Weight (Kg)
			A	L	Ø d	e	
1/4"	IV601 1/4	40	30	65	1	1	0.29
3/8"	IV601 3/8	40	30	65	1	1	0.21
1/2"	IV601 1/2	40	40	65	1	1	0.22
3/4"	IV601 3/4	40	45	80	1	1	0.35
1"	IV6011	40	55	90	1	1	0.66
1 1/4"	IV6011 1/4	40	65	105	1	1	0.77
1 1/2"	IV6011 1/2	40	70	120	1	1	1.15
2"	IV6012	40	85	140	1	1	1.76

N°	NOME NAME	MATERIALI MATERIAL	FINITURA SUPERFICIALE SURFACE TREATMENT
1	Corpo / Body	CF8M	Sabbia / Shot blasting + Pickling
2	Filtro / Strainer	AISI 316	---
3	Guarnizione / Gasket	PTFE	---
4	Tappo / Plug	CF8M	Sabbia / Shot blasting + Pickling

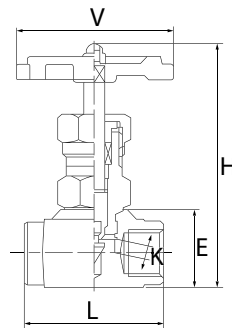
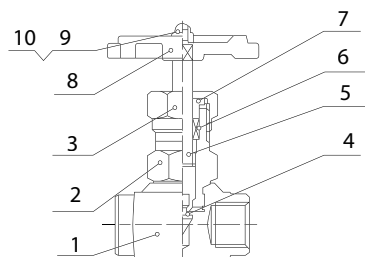
DIAGRAMMA PERDITE DI CARICO HEAD LOSSE DIAGRAM



DETTAGLIO MAGLIA FILTRANTE MESH DETAIL



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ART. 223 VALVOLA A SPILLO A VIA DIRITTA

3000 PSI

CERTIFICATI EN 10204/2.1

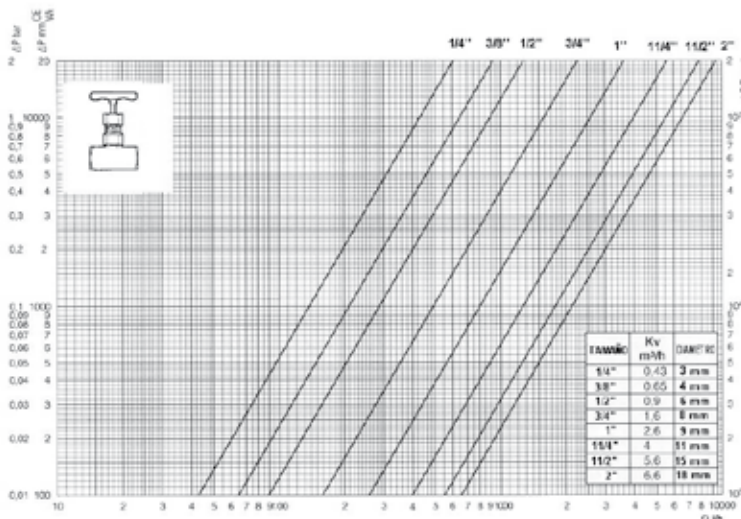
ESECUZIONE SPECIALE: NPT

CARATTERISTICHE TECNICHE

1. Valvola a spillo via dritta
2. Acciaio Inox ASTM A182 F316
3. Filetto estremità secondo EN 10226-1 (EX ISO 7-1 e DIN 2999) gas
4. Premistoppa in PTFE + Grafite
5. Pressione massima di lavoro 3000 Lbs.
6. Limiti pressione / Temperatura:
1/4" - 1/2" = 220 Bar / 260°C
3/4" - 1" = 220 Bar / 240°C
1 1/2" - 2" = 210 Bar / 200°C

DIAGRAMMA DELLE PERDITE DI CARICO HEAD LOSSES DIAGRAM

Rif: H₂O -20C° Flusso in Orizzontale / Horizontal flow



ART. 223 NEEDLE VALVES

3000 PSI

CERTIFICATES EN 10204/2.1

SPECIAL EXECUTION: NPT

TECHNICAL INFORMATION

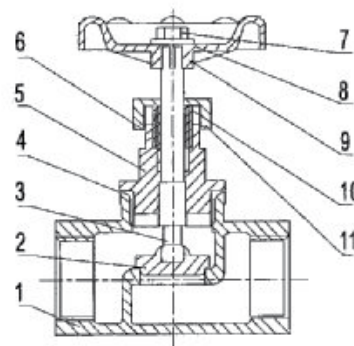
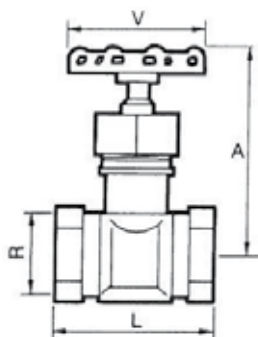
1. Needle valve
2. Made of Stainless steel ASTM A182 F316
3. Threaded ends according EN 10226-1 (EX ISO 7-1 e DIN 2999) gas
4. Stem Packing PTFE + Graphite
5. Max. Working pressure 3000 Lbs.
6. Pressure / Temperature Range:
1/4" - 1/2" = 220 Bar / 260°C
3/4" - 1" = 220 Bar / 240°C
1 1/2" - 2" = 210 Bar / 200°C

N°	Nome Name	Materiale Material	Finitura Superficiale Surface Treatment
1	Corpo / Body	AISI 316 / SS ASTM A182 F316	
2	Vitone / Bonnet	AISI 316	
3	Dado premistoppa / Nut	AISI 316	
4	Spillo / Needle	AISI 316 + Stellite / SS 316 + Stellite	
5	Stelo / Stem	AISI 316 / SS ASTM A182 F316	
6	Pacco Tenuta / Stem Packing	Teflon + Grafite / PTFE + Grafite	
7	Dado premistoppa / Packing Nut	AISI 316 / SS. AISI 316	
8	Volantino / Handwheel	Alluminio / Aluminium	Verniciato / Painted
9	Dado / Nut	AISI 304 / SS. AISI 304	
10	Rondella / Washer	AISI 304 / SS. AISI 304	

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)					Peso/ Weight (Kg)
			E	H	L	K	V	
1/4"	IV2231/4	3000	25	85	50	3	63	0.26
3/8"	IV2233/8	3000	30	100	55	4	63	0.3
1/2"	IV2231/2	3000	34	115	60	6	72	0.53
3/4"	IV2233/4	3000	40	120	70	8	72	0.76
1"	IV2231	3000	45	138	75	9	80	1.17
1 1/4"	IV22311/4	3000	57	165	90	11	100	1.85
1 1/2"	IV22311/2	3000	67	185	100	15	120	2.90
2"	IV2232	3000	78	195	120	18	140	4.70

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ART. 230
VALVOLA A GLOBO FILETTATA
 CERTIFICATI EN 10204/2.1

CARATTERISTICHE TECNICHE

1. Valvola a globo
2. Corpo in Acciaio AISI 316 CF8M
3. Otturatore in AISI 316
4. Estremità filettate secondo nome EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Premistoppa in PTFE
6. Pressione massima di esercizio 16 kg/cm²
7. Temperatura massima di esercizio: 180C°

ART. 230
THREADED ENDS GLOBE VALVES
 CERTIFICATES EN 10204/2.1

TECHNICAL INFORMATION

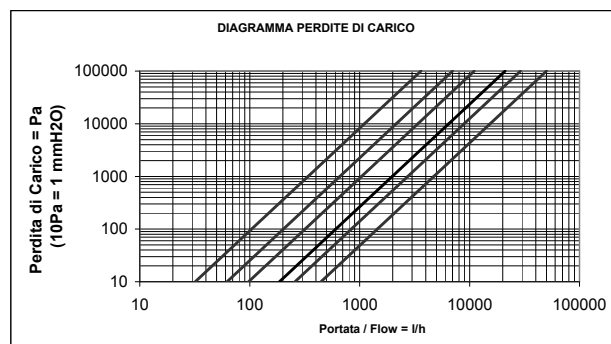
1. Globe valve
2. Made of Stainless steel CF8M
3. Compact disc made of S. Steel 316
4. Threaded ends according EN 10226-1 (EX ISO 7-1 e DIN 2999)
5. Stem packing PTFE
6. Max working pressure 16 kg/cm²
7. Max working temperature: 180C°

DIAGRAMMA DELLE PERDITE DI CARICO / HEAD LOSSES DIAGRAM
H2O 20C° FLUSSO ORIZZONTALE / HORIZONTAL FLOW

N°	NOME / NAME	MATERIALI / MATERIAL	FINITURA SUPERFICIALE / SURFACE TREATMENT
1	Corpo / Body	ACCIAIO INOX CF8M / S.S. CF8M	RUVIDA / SHOT BLASTING
2	Otturatore / Disc	ACCIAIO INOX 316 / S.S. 316	
3	Stelo / Stem	ACCIAIO INOX 316 / S.S. 316	
4	Guarnizione / Body Gasket	TEFLÒN / PTFE	
5	Coperchio / Cap	ACCIAIO INOX CF8M / S.S. CF8M	RUVIDA / SHOT BLASTING
6	Rondella / Washer	ACCIAIO INOX 316 / S.S. 316	
7	Dado / Nut	ACCIAIO INOX 304 / S.S. 304	
8	Rondella / Washer	ACCIAIO INOX 304 / S.S. 304	
9	Volantino / Handwheel	ALLUMINIO / ALUMINIUM	VERNICIATA / PAINTED
10	Dado Premistoppa / Packing Nut	ACCIAIO INOX 316 / S.S. 316	
11	Tenuta / Stem Packing	TEFLÒN / PTFE	

DIMENSIONI GENERALI / GENERAL DIMENSIONS

Diametri Size	Codice Code	PN	Dimensioni / Dimensions (mm)				Peso/ Weight (Kg)
			R	A (OPEN)	L	V	
1/2"	IV2301/2	16	1/2"	97	65	70	0.38
3/4"	IV2303/4	16	3/4"	103	75	70	0.60
1"	IV2301	16	1"	116	90	70	0.85
1 1/4"	IV23011/4	16	1 1/4"	135	105	80	1.36
1 1/2"	IV23011/2	16	1 1/2"	152	120	100	1.88
2"	IV2302	16	2"	164	140	100	2.68



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